## CLEAN AIR NORTHEAST FLORIDA

# REGIONAL PRIORITY

**MARCH 2024** 



















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Clean Air Northeast Florida Regional Priority Climate Action Plan March 2024

# ACKNOWLEDGMENTS

The Priority Climate Action Plan lays the framework to combat climate change and its impacts in Northeast Florida by measuring, planning, and reducing greenhouse gas (GHG) emissions and related climatic impacts in the region. None of this would have been possible without the significant contributions in time, energy, and thought of many. We would like to sincerely thank the groups and individuals listed below for their support and contributions to the plan.

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# **ABBREVIATIONS AND ACRONYMS**

| Abbreviations and Acronyms | Definition                                     |  |
|----------------------------|--|--|
| AFOLU                      | Agriculture, Forestry, and Other Land Use      |  |
| BAU                        | Business as Usual                              |  |
| BLTS                       | Bicycle Level of Traffic Stress                |  |
| CAPs                       | Criteria Air Pollutants                        |  |
| ССАР                       | Comprehensive Climate Action Plan              |  |
| CEJST                      | Climate and Economic Justice Screening Tool    |  |
| CH <sub>4</sub>            | Methane  |  |
| CIP                        | Capital Improvement Plan                       |  |
| CLAM                       | Conservation Lands Acquisition and Management  |  |
| CNG                        | Compressed Natural Gas                         |  |
| CO <sub>2</sub>            | Carbon Dioxide                                 |  |
| СОАВ                       | City of Atlantic Beach                         |  |
| СОЈ                        | City of Jacksonville                           |  |
| CPRG                       | Climate Pollution Reduction Grant              |  |
| DCPS                       | Duval County Public Schools                    |  |
| DERs                       | Distributed Energy Resources                   |  |
| EJ                         | Environmental Justice                          |  |
| EPA                        | U.S. Environmental Protection Agency           |  |
| EVs                        | Electric Vehicles                              |  |
| F.A.C.                     | Florida Administrative Code                    |  |
| FDOT                       | Florida Department of Transportation           |  |
| FEECA                      | Florida Energy Efficiency and Conservation Act |  |
| F-gases                    | Fluorinated gases                              |  |
| FLIGHT                     | Facility Level Information on GHGs Tool        |  |
| FPL                        | Florida Power and Light                        |  |
| FPUC                       | Florida Public Utilities Company               |  |
| FY                         | Fiscal Year                                    |  |
| GEI                        | Google's Environmental Insights                |  |
| GHGs                       | Greenhouse Gases                               |  |
| GPC                        | Global Protocol for Community-Scale            |  |
| HAPs                       | Hazardous Air Pollutants                       |  |
| HFCs                       | Hydrofluorocarbons                             |  |
| ICC                        | International Code Council                     |  |
| ICE                        | Internal Combustion Engine                     |  |
| IOUs                       | Investor-Owned Utilities                       |  |
| JAXPORT                    | Jacksonville Port Authority                    |  |
| JEA                        | Jacksonville Electric Authority                |  |
| JTA                        | Jacksonville Transportation Authority          |  |
| kWh                        | Kilowatt Hour                                  |  |
| LEED                       | Leadership in Energy and Environmental Design  |  |

| LFG                 | Landfill Gas  |  |
|---------------------|---|--|
| LIDACs              | Low-Income and Disadvantaged Communities                            |  |
| LGGIT               | EPA's Local GHG Inventory Tool                                      |  |
| MARPOL              | International Convention for the Prevention of Pollution from Ships |  |
| MSAs                | Metropolitan Statistical Areas                                      |  |
| MSW                 | Municipal Solid Waste   |  |
| mtCO <sub>2</sub> e | Metric Tons of Carbon Dioxide Equivalents                           |  |
| MW                  | Megawatts   |  |
| MWh                 | Megawatt Hour   |  |
| NEFL                | Northeast Florida   |  |
| NEFRC               | Northeast Florida Regional Council                                  |  |
| NF <sub>3</sub>     | Nitrogen Trifluoride  |  |
| NOAA                | National Oceanic and Atmospheric Administration                     |  |
| N <sub>2</sub> O    | Nitrous Oxide   |  |
| NREL                | National Renewable Energy Laboratory                                |  |
| OUC                 | Orlando Utilities Commission  |  |
| P-ACBs              | Permeable Articulating Concrete Blocks                              |  |
| PCAP                | Priority Climate Action Plan  |  |
| PSC                 | Florida Public Service Commission                                   |  |
| RFLPP               | Rural and Family Lands Protection Program                           |  |
| RMP                 | Risk Management Plan  |  |
| RNG                 | Renewable Natural Gas   |  |
| SF <sub>6</sub>     | Sulfur Hexafluoride   |  |
| SLOPE               | State and Local Planning for Energy                                 |  |
| SME                 | Subject Matter Expert   |  |
| SO <sub>2</sub>     | Sulfur Dioxide  |  |
| SSO                 | Sanitary Sewer Overflow   |  |
| UNF                 | University of North Florida   |  |
| TECO                | Tampa Electric Company  |  |
| ТРО                 | Transportation Planning Organization                                |  |
| UPWP                | Unified Planning Work Program                                       |  |

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| Strategies  |
| Strategies  |

# EXECUTIVE SUMMARY

CLEAN AIR NORTHEAST FLORIDA REGIONAL PRIORITY CLIMATE ACTION PLAN

# **EXECUTIVE SUMMARY**

The Priority Climate Action Plan (PCAP) is a vital initial step in the journey toward sustainable environmental management, specifically tailored to Northeast Florida's unique context. As the inaugural deliverable to the United States Environmental Protection Agency (EPA) under the planning grant phase of Phase 1, the PCAP is a comprehensive narrative report. This report meticulously outlines a range of near-term, high-impact, implementation-ready actions to reduce greenhouse gases. Furthermore, it incorporates a detailed quantitative analysis of the expected reductions in greenhouse gases because of these actions.

### Table 1 details all economic sectors' total NEFL GHG emissions in metric tons of carbon dioxide equivalents (mtCO,e).

#### TABLE 1 NEFL GHG Emissions in mtCO, e by Sector

| Sector  | GHG Emissions, mtCO <sub>2</sub> e  |
|---|---|
| Transportation  | 7,372,833   |
| Industry  | 1,905,683   |
| Agriculture, Forestry, and Other Land Use   | 1,561,181   |
| Residential   | 3,662,179   |
| Commercial  | 3,861,188   |
| Waste and Wastewater  | 709,861   |
| Total   | 18,402,469  |
|   |   |
|   |   |
| SECTORS   | GREENHOUSE GASES<br>ACROSS ALL SECTORS  |
| SECTORS<br>Transportation and Mile Sources  | ACROSS ALL SECTORS  |
|   |   |
| Transportation and Mile Sources   | ACROSS ALL SECTORS  |
| Transportation and Mile Sources<br>Electricity Generation and/or Use  | ACROSS ALL SECTORS<br>Carbon Dioxide (CO <sub>2</sub> )<br>Methane (CH <sub>4</sub> )   |
| Transportation and Mile Sources<br>Electricity Generation and/or Use<br>Agriculture, Forestry, and Other Land Use               | ACROSS ALL SECTORS         Carbon Dioxide (CO2)         Methane (CH4)         Nitrous Oxide (N20)   |
| Transportation and Mile Sources<br>Electricity Generation and/or Use<br>Agriculture, Forestry, and Other Land Use<br>Industrial | ACROSS ALL SECTORS         Carbon Dioxide (CO2)         Methane (CH4)         Nitrous Oxide (N2O)         Fluorinated Gases (F-gases), including: |

# INTRODUCTION

CLEAN AIR NORTHEAST FLORIDA REGIONAL PRIORITY CLIMATE ACTION PLAN

# I. INTRODUCTION

Climate change presents an unprecedented challenge and opportunity for our region. As we stand at the crossroads of environmental uncertainty and technological advancement, the urgency to act has never been greater. The current state of our planet is a clear signal that the time for delay is over. The hazards and risks associated with inaction grow more daunting each day, threatening our communities, economies, and ecosystems with extreme weather events, rising sea levels, and devastating natural disasters. These challenges disproportionately impact the most vulnerable among us, laying bare the stark inequalities that pervade our societies.

In the face of these challenges, a profound opportunity exists to reshape our community for the better. We have the tools, the knowledge, and the collective will to implement greenhouse gas (GHG) reduction strategies that are not only effective but also equitable. By prioritizing actions that reduce emissions and enhance resilience, we can create a sustainable, just, and prosperous future for all. Our vision is clear: a world where progress and sustainability go hand in hand, where no one is left behind in the transition to a decarbonized economy. This is not just a vision; it is a necessity, a moral imperative that we must pursue with determination and hope. The time to act is now, and every step we take towards this goal brings us closer to a safer, healthier, and more equitable Northeast Florida region for future generations.



#### FIGURE 1

### GEOGRAPHIC SCOPE OF NORTHEAST FLORIDA MSA

This creation of a Priority Climate Action Plan is a step forward in the Jacksonville Metropolitan Statistical Area (MSA). Made possible through a \$1 million Non-competitive planning grant award through the EPA Climate Pollution Reduction Grants Program (CPRG). This four-year program emphasizes equity and regional collaboration across the MSA. The MSA is comprised of, Duval, Clay, St. Johns, Nassau Counties and the City of Palm Coast with deep collaboration with cities of Jacksonville, St. Augustine and Atlantic Beach.

Located in Northeast Florida, Jacksonville MSA is uniquely positioned to leverage the resources of the EPA's Climate Pollution Reduction Grant as momentum in regional sustainability and resilience leadership to accelerate positive change. As the lead entity, the City of Jacksonville is the largest city (by land mass) in the contiguous United States and largest municipality in the region. Jacksonville's current administration remains committed to championing significant actions to bring Jacksonville and the Northeast Florida region forward to mitigate climate impacts and adapt to climate change as quickly as possible, through sustainability and climate resilience measures. The commitment is similar for the surrounding counties and cities comprising the MSA region, as seen with the onboarding of professional staff and city funded investments in sustainability and resilience measures. Funding through the CPRG has catalyzed current actions to accelerate efforts and propel the northeast Florida region to new and unprecedented levels. There are several major milestones in the region that are important to highlight regarding the alignment and synchronization with the goals of the CPRG:

- St Augustine hired a Chief Resiliency Officer in 2019
- The City of Jacksonville hired its first-ever Chief Resilience Officer in 2021, and published a comprehensive resilience plan "Resilient Jacksonville" in October 2023
- The City of Atlantic Beach Awarded LEED for Cities Gold Certification in 2022
- The City of Palm Coast hired its first-ever Chief Sustainability and Resiliency Officer in 2023
- The City of Jacksonville hired its first-ever Sustainability Manager in 2023
- St. Augustine hired its first-ever Sustainability Specialist in 2023
- St. Augustine hired a Chief Resiliency Officer in 2021
- The first-ever MSA-wide baseline GHG inventory was conducted and completed in January 2024
- Clean Air Northeast Florida Incentive was established in 2023 to serve as a regional resource for climate and sustainability information, collaboration, and action. The www.cleanairnortheastflorida.com website launched in February 2024.

As the grantee to the EPA's Climate Pollution Reduction Act Planning Grant, the City of Jacksonville has partnered with the Northeast Florida Regional Council to produce this PCAP to support investment in policies, practices, and technologies that reduce pollutant emissions, create high-quality jobs, spur economic growth, and enhance the quality of life in Northeast Florida. This project, a historic first for the area, has been funded by the EPA. The contents of this document do not necessarily reflect the views and policies of the EPA, nor does the EPA endorse trade names or recommend the use of commercial products mentioned in this document.

The measures contained herein should be construed as broadly available to any entity within the geographic scope of this PCAP eligible to receive funding under the EPA's CPRG Implementation Grant General Competition and other funding streams, as applicable.

#### This PCAP is organized into six sections:

- 1. Introduction
- 2. Greenhouse Gas (GHG) Emissions Inventory
- 3. Priority Measures
- 4. Low-Income/Disadvantaged Community Benefits Analysis
- 5. Coordination and Outreach
- 6. Conclusion





# GREENHOUSE GAS EMISSIONS INVENTORY

CLEAN AIR NORTHEAST FLORIDA REGIONAL PRIORITY CLIMATE ACTION PLAN

# **II. GREENHOUSE GAS EMISSIONS INVENTORY**

Hanson Professional Services has developed an inventory of priority sources of GHG emissions within the Northeast Florida region. This data is built upon the governmental inventories that the Audubon Society worked to develop with each participating municipality. This inventory was prepared using the following data resource(s):

- EPA's Local GHG Inventory Tool (LGGIT)<sup>1</sup>,
- Facility-specific GHG data published by the EPA in the Facility Level Information on Greenhouse Gases Tool (FLIGHT)<sup>2</sup>,
- Data reported to the EPA's Greenhouse Gas Reporting Program<sup>3</sup>
- EPA's National Emissions Inventory<sup>4</sup>
- United States Department of Energy State and Local Planning for Energy (SLOPE) Platform<sup>5</sup>
- The World Resources Institute and World Business Council for Sustainable Development Global Protocol for Community-Scale (GPC) Greenhouse Gas Inventories<sup>6</sup>
- Data reported in the United States Census Bureau's data tables:
  - American Community Survey<sup>7</sup>
  - County Business Patterns<sup>8</sup>
- Data reported in the United States Energy Information Administration's State Profile and Energy Estimates<sup>9</sup>
- Google's Environmental Insights Platform<sup>10</sup>
- Florida's Department of Environmental Protection Report for MSW Management<sup>11</sup>
- Census data from the USDA National Agricultural Statistics Service<sup>12</sup>

#### The NEFL inventory includes the following sectors and gases:

| SECTORS                    | <b>GREENHOUSE GASES (ACROSS ALL SECTORS)</b> |
|----------------------------|--|
| Transportation             | Carbon Dioxide (CO <sub>2</sub> )            |
| Industry                   | Methane ( $CH_4$ )                           |
| Agriculture                | Nitrous Oxide (N <sub>2</sub> O)             |
| Residential                | Fluorinated Gases (F-gases), including:      |
| Commercial                 | Hydrofluorocarbons (HFCs)                    |
| Solid Waste and Wastewater | Sulfur Hexafluoride (SF <sub>6</sub> )       |
|                            | Nitrogen Trifluoride (NF <sub>3</sub> )      |

- 1. <u>https://www.epa.gov/statelocalenergy/local-greenhouse-gas-inventory-tool</u>
- 2. https://ghgdata.epa.gov/ghgp/main.do
- 3. <u>https://www.epa.gov/ghgreporting/data-sets</u>
- 4. <u>https://www.epa.gov/air-emissions-inventories/national-emissions-inventory-nei</u>
- 5. <u>https://maps.nrel.gov/slope</u>
- 6. <u>https://ghgprotocol.org/ghg-protocol-cities</u>
- 7. <u>https://data.census.gov/table?q=S1101andy=2019</u>
- 8. <u>https://data.census.gov/table?q=CBP2019.CB1900CBP</u>
- 9. <u>https://www.eia.gov/state/data.php?sid=FL</u>
- 10. <u>https://insights.sustainability.google/</u>
- 11. https://floridadep.gov/sites/default/files/Baker\_2019.pdf
- 12. https://www.nass.usda.gov/Publications/AgCensus/2017/

Table 2 details total Northeast Florida MSA GHG emissions in metric tons of carbon dioxide equivalents (mtCO\_e) for all economic sectors and counties.

#### **TABLE 2 NEFL 2019 GHG Emissions** in mtCO<sub>e</sub> by Sector and County

| SECTOR/ | COUNTY |
|---------|--------|

| SECTOR/COUNTY                             | SECTOR/COUNTY    |
|---|------------------|
| <u>Transportation</u>                     | <u>7,372,833</u> |
| Baker County                              | 249,443          |
| Clay County                               | 820,095          |
| Duval County                              | 3,287,934        |
| Nassau County                             | 761,343          |
| City of Palm Coast                        | 549,889          |
| St. Johns County                          | 1,704,129        |
| Industry                                  | 1,905,683        |
| Baker County                              | -                |
| Clay County                               | -                |
| Duval County                              | 553,406          |
| Nassau County                             | 681,821          |
| City of Palm Coast                        | -                |
| St. Johns County                          | -                |
| Agriculture, Forestry, and Other Land Use | <u>890,725</u>   |
| Baker County                              | 285,494          |
| Clay County                               | 131,536          |
| Duval County                              | 191,016          |
| Nassau County                             | 307,075          |
| City of Palm Coast                        | 17,590           |
| St. Johns County                          | 628,480          |
| <u>Residential</u>                        | <u>3,662,179</u> |
| Baker County                              | 53,863           |
| Clay County                               | 517,480          |
| Duval County                              | 2,300,950        |
| Nassau County                             | 158,659          |
| City of Palm Coast                        | 164,072          |
| St. Johns County                          | 467,155          |
| <u>Commercial</u>                         | <u>3,861,188</u> |
| Baker County                              | 29,557           |
| Clay County                               | 313,212          |
| Duval County                              | 2,996,265        |
| Nassau County                             | 104,750          |
| City of Palm Coast                        | 62,097           |
| St. Johns County                          | 355,307          |
| <u>Solid Waste and Wastewater</u> 13      | <u>709,861</u>   |
| Baker County                              | 5,949            |
| Clay County                               | 113,792          |
| Duval County                              | 360,442          |
| Nassau County                             | 23,277           |
| City of Palm Coast                        | 9,538 + 9628     |
| St. Johns County                          | 187,225          |

The following list highlights which sectors and counties will need the most focused reductions:

#### **Residential and Commercial Buildings:**

Collectively, residential and commercial buildings are the largest contributors to GHG emissions in Northeast Florida, making up 41% of the sector-based inventory. This is primarily due to the high volume of residents and businesses in Duval County. Neighboring counties such as Clay and St. Johns also significantly contribute to emissions in this sector.

**Transportation:** Transportation is the second-largest contributor of GHG emissions after residential and commercial buildings. It makes up 40% of the sector-based inventory. Out of the regions analyzed, Duval and St. Johns Counties contribute the most due to high gasoline and diesel use.

Agriculture, Forestry, and Land: The agriculture, forestry, and land sectors comprise 8% of all GHG emissions. This is primarily due to more rural counties like St. Johns, Nassau, and Baker. A significant factor in this sector is the conversion of forests to settlements, grasslands, or wetlands.

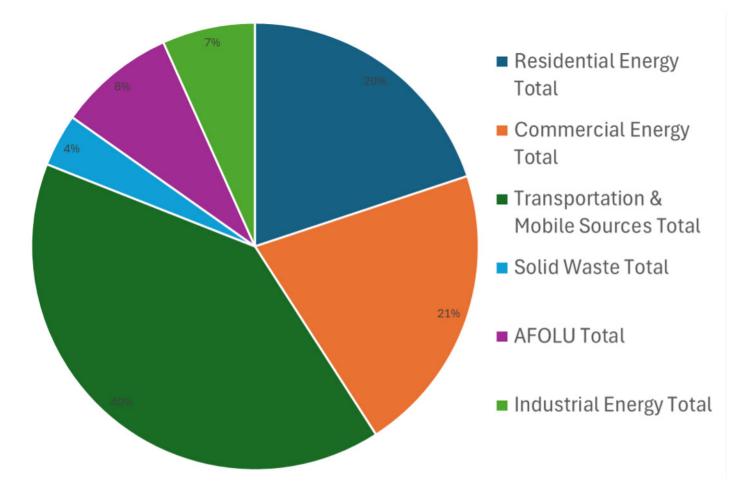
Industry: The next largest contributor to GHG emissions is the industry sector, which makes up 7% of all emissions. All industrial activities take place in Duval County and Nassau County. The emissions from this sector include, but are not limited to, natural gas, oil, agricultural byproducts, and wood residuals.

Waste and Materials Management: Solid waste is the smallest percentage of GHG emissions at 4%. This is highest in counties with many residents or an active tourism industry.

The residential, commercial, and transportation sectors account for 81% of emissions. Duval County contributes 45% of transportation emissions and 70% of residential and commercial emissions within these sectors. After Duval, St. Johns County has the second-highest emissions in these sectors.

This inventory is the basis for determining what reduction measures should be implemented to impact GHG emissions significantly.

#### **NEFL GHG Emissions by Sector**





# PRIORITY MEASURES

CLEAN AIR NORTHEAST FLORIDA REGIONAL PRIORITY CLIMATE ACTION PLAN

# **III. PRIORITY MEASURES**

The measures in this section have been identified as "priority measures" for the purposes of pursuing funding through CPRG implementation grants. This list is not exhaustive of Northeast Florida's priorities. Instead, the selected priority measures included in this PCAP meet the following criteria:

- The measure is implementation-ready, meaning that the design work for the policy, program, or project is complete enough that a full scope of work and budget can be included in a CPRG implementation grant application.
- The measure can be completed in the near term, meaning that all funds will be expended, and the project completed within the five-year performance period for the CPRG implementation grants.
- The measure positively impacts low-income and disadvantaged (LIDAC) communities.
- The measure advances the following priorities:
  - Significant and sustained emission reductions,
  - Maximizing reach to the entire MSA, and
  - Public health.

Table 3 on the following page summarizes NEFL PCAP priority measures. Based on the GHG emissions inventory, commercial and residential buildings and transportation are the highest contributing categories. Therefore, most measures address those sectors.

#### For each priority measure, this PCAP provides additional details about the following information

- An estimate of the cumulative GHG emission reductions from 2025 through 2030,
- An estimate of the cumulative GHG emission reductions from 2025 through 2050,
- Geographic scope,
- Metrics for tracking progress,
- Authority to implement,
- Benefits, Methods and assumptions.



| Table 3 NEFL PCAP Priority  | Measures                              |  |  |                          |
|---|---------------------------------------|--|--|--------------------------|
| Priority Measure  |                                       | Cumulative GHG<br>Emission Reductions<br>(mtCO <sub>2</sub> e) | Implementing<br>Agency or<br>Agencies  | Geographic<br>Scope      |
|   | 2030                                  | 2050   |  |                          |
| Electrical Grid   |                                       | 1  |  |                          |
| Increase Clean Energy   | 0.59 mtCO <sub>2</sub> eper<br>capita | 0.57 mtCO <sub>2</sub> e per capita                            | Regional Utility<br>Providers  | MSA-wide                 |
| Residential and (   | Commercial Buil                       | dings  |  |                          |
| Residential Solar and<br>Energy Efficiency<br>Programs                              | 46,260                                | 231,304  | NEFL MSA Leads   | MSA-wide                 |
| Municipal Solar<br>Expansion  | 434,600                               | 1,885,000  | NEFL MSA Leads   | MSA-wide                 |
| Municipal Built<br>Environment and<br>Infrastructure<br>Decarbonization             | 34,109                                | 57,109   | City of Jacksonville,<br>City of Atlantic<br>Beach, City of St.<br>Augustine   | 3 Cities                 |
| Transportation  |                                       |  |  |                          |
| North Florida TPO's<br>Clean Fuels Initiative                                       | 72,345                                | 482,297  | North Florida's TPO,<br>JEA, JTA, COJ, City of<br>St. Augustine, Nassau<br>County, St. Johns<br>County                         | 3 Counties               |
| Mass Transit Expansion<br>and Mobility Hubs,<br>assuming 15%<br>conversion per year | 102,000                               | 3,200,000  | Jacksonville Transit<br>Authority  | 5 Counties               |
| City of Jacksonville<br>Bicycle and Pedestrian<br>Programs                          | 7,695                                 | 38,475   | City of Jacksonville   | 1 City                   |
| Fleet Transition to<br>Electric Vehicles (EV)<br>per 1,000 vehicles                 | 1,000                                 | 187,000  | Nassau County, City<br>of St. Augustine, City<br>of Jacksonville, City<br>of Atlantic Beach,<br>Duval County Public<br>Schools | 1 County<br>and 3 Cities |
|   |                                       |  |  |                          |

| Priority Measure   |                                       | Cumulative GHG<br>Emission Reductions<br>(mtCO <sub>2</sub> e) | Implementing<br>Agency or<br>Agencies  | Geographic<br>Scope |
|--|---------------------------------------|--|--|---------------------|
|  | 2030                                  | 2050   |  |                     |
| Agriculture, Forest                                      | ry, and Land                          |  |  |                     |
| Increase Clean Energy                                    | 0.59 mtCO <sub>2</sub> eper<br>capita | 0.57 mtCO <sub>2</sub> e per<br>capita                         | Regional Utility<br>Providers  | MSA-wide            |
| Residential and C  | ommercial Build                       | lings  |  |                     |
| Land Acquisition   | 46,060                                | 46,061   | Nassau County, City<br>St. Augustine   | MSA-wide            |
| Industrial   |                                       |  |  |                     |
| Green Shipping Corridor                                  | 19,468                                | 34,157   | JAXPORT  | 1 City              |
| Waste and Materials Management                           |                                       |  |  |                     |
| Wastewater Treatment<br>Efficiency Upgrades              | 215.5                                 | 933.8  | City of Palm Coast   | Palm Coast          |
| Composting and Waste<br>Diversion (50% adoption<br>rate) | 365,507                               | 1,583,865  | City of Jacksonville,<br>City of Atlantic<br>Beach, City of St.<br>Augustine | 3 Cities            |
| Landfill Gas Recovery and Conversion                     | 1,802,220                             | 9,011,100  | City of Jacksonville   | 1 City              |

#### **ELECTRICAL GRID**

Before diving into the increasing clean energy measure, it is important to note Florida's unique statewide vertically integrated electricity. The Florida Public Service Commission (PSC)<sup>14</sup>, an arm of the legislative branch of government, only permits one electricity provider in any region and oversees that only legally defined utilities are allowed to create, transmit, distribute, and sell electricity within the state. There are pros and cons to this system including on the positive side providing a safe, adequate, and reliable grid yet on the downside, not incentivizing innovation and competition (e.g., virtual power purchase agreements, community solar, solar leasing, microgrids and blockchain).

The following provides a summary of utilities regulation in Florida pertinent to several of the measures discussed herein. The role of the PSC is to ensure Florida's consumers receive utility services, including electric, natural gas, telephone, water, and wastewater, in a safe, affordable, and reliable manner. To do so, the PSC exercises authority over public utilities in one or more of the following areas: rate base or economic regulation; competitive market oversight; and monitoring of safety, reliability, and service issues. The PSC monitors the safety and reliability of the electric power grid and may order the addition or repair of infrastructure as necessary.

The PSC has broad jurisdiction over the rates and services of investor-owned electric and gas utilities. However, the PSC does not fully regulate municipal electric utilities (utilities owned or operated on behalf of a municipality) or rural electric cooperatives. The PSC has jurisdiction over these types of utilities regarding rate structure, territorial boundaries, bulk power supply operations, and planning. Municipally owned utility rates and revenues are regulated by their respective local governments. Section 366.041(2), F.S., requires public utilities to provide adequate service to customers. As compensation for fulfilling that obligation, s. 366.06, F.S., requires the PSC to allow the investor-owned utilities (IOUs) to recover honestly and prudently invested costs of providing service, including investments in infrastructure and operating expenses used to provide electric service.

In 1980, Florida enacted the Florida Energy Efficiency and Conservation Act (FEECA), requiring the PSC to review the conservation goals of each utility. In 2014, the PSC approved new numerical conservation goals for seven utilities subject to FEECA, scheduling demand reductions for each utility based on a costeffectiveness methodology. Utilities subject to FEECA include Florida Power and Light Company; Duke Energy Florida, LLC; Tampa Electric Company, Florida Public Utilities Company; JEA; and Orlando Utilities Commission. FEECA goals for electric utilities were last established by the PSC in 2019 for 2020-2024. Commissioners directed rule review following approval of utility programs to implement the goals in 2020. The Legislature adopted FEECA to promote four key priorities:

- Reducing the growth rates of weather-sensitive peak demand and electricity usage
- Increasing the efficiency of the production and consumption of electricity and natural gas
- Encouraging demand-side renewable energy systems
- Conserving expensive resources, particularly
   petroleum fuel

The Legislature emphasized the critical need to utilize "efficient and cost-effective" conservation systems. The Legislature set forth in Section 366.82, F.S., specific statutory guidelines for the PSC to implement FEECA's objectives through the establishment of utility conservation goals and approval of utility plans to meet those goals.

Chapter 186, F.S, requires that each electric utility in Florida, with a minimum existing generating capacity of 250 megawatts (MW), must annually submit a Ten-Year Power Plant Site Plan. This Site Plan should include an estimate of the utility's future electric power generating needs, a projection of how these estimated generating needs could be met, and disclosure of information pertaining to the utility's preferred and potential power plant sites. Ten Year Site Plans are submitted to the PSC pursuant to Section 186.801, F.S. describing power needs and locations of proposed power plants. Within nine months of receipt of those plans, the PSC must make a preliminary study and classify the plan as "suitable" or "unsuitable," and can suggest alternatives. Utilities can change their Site Plans at any time and submit written notice to the PSC. These Site Plans reflect the utilities' plans for their grid to meet demand through various energy sources.

#### Clean Energy Increase by Local Utility Companies

#### Description

Within NEFL, three utility providers have been identified as interested in providing more clean energy to their customers: Florida Power and Light (FPL), Jacksonville Electric Authority (JEA), and Clay Electric Cooperative. To reduce GHG emissions, utility companies across the region have developed strategies to increase clean energy. This includes escalating solar and wind power supply while considering increased electricity demand due to population increases over time.

 FPL, a subsidiary of Juno Beach, Florida-based NextEra Energy, Inc., primarily serves Baker County, Nassau County, St. Johns County, and Palm Coast City. According to the NextEra Zero Carbon Blueprint, between 2005 and 2019, FPL has decreased its reliance on non-renewable energy sources by 58%<sup>15</sup>. Looking ahead, FPL has set ambitious goals: by 2030, it aims to power its electric grid with 82% clean energy. Furthermore, by 2050, FPL aspires to achieve the milestone of using 100% clean energy for its electric grid.

- JEA, which provides services to Duval County (minus a few small cities such as the City of Neptune Beach and Jacksonville Beach), has set some more tempered goals for itself. Per the JEA 2023 Electric Generation Integrated Resource Plan, by the year 2030, JEA aims to expand its power supply portfolio to 35% clean energy <sup>16</sup>. However, with population growth and anticipated EV expansion through 2050, JEA's projected current outlook still includes possible investments into natural gas systems in addition to increased solar and nuclear power.
- Other regional utilities, including Florida Public Utilities, Beaches Energy, and Clay Electric Cooperative, offer various energy-saving and environmentally friendly resources.

#### Impact

Grid decarbonization will have several impacts on the community, covering economic, health, environmental, and social aspects. It can lead to economic growth through the creation of green jobs in clean energy. This can include jobs in manufacturing, installation, and maintenance, contributing to the local economy and reducing unemployment rates. Reduced reliance on fossil fuels and lowering greenhouse gas emissions can lead to improved public health outcomes, including reductions in air pollution, which can decrease the prevalence of respiratory illnesses, heart conditions, and other health issues related to poor air quality. Grid decarbonization can help communities become more resilient to the impacts of climate change, putting communities in a better position to withstand extreme weather events. Renewable energy, when accessible to low-income households, can promote social equity by ensuring that clean energy benefits are shared across all segments of the community. Energy security can be enhanced through the reduced dependency on imported fuels. By transitioning to locally sourced clean energy, communities can be more self-sufficient, less vulnerable to global market fluctuations, and more resilient in the face of energy supply disruptions. There are also several innovation and education opportunities in the move to increased clean energy; communities can be hubs for clean energy research and development, and educational programs can prepare the workforce for the new green economy.

#### Implementation

Jacksonville Electric Authority (JEA)

**Clean Energy Sources:** JEA is exploring clean energy options including solar, lithium battery storage, biomass, hydrogen, and nuclear options.

Schedule & Milestones: Part of JEA's implementation plan highlights opportunities with solar, residential rooftop solar PV, and battery storage installations. JEA has examined within three other planning scenarios 5% of their residential load to be met by rooftop PV by 2030, although it is not in their Current Outlook scenario. JEA carried out a solar siting study to assess potential sites for developing approximately 4,000 MW of new solar assets. This would require 24,000-32,000 acres of land. Florida is mostly flat which is an ideal ground condition for solar development, but the state does pose high flood risk and has lots of forested areas. As a result of this study, 101 potential sites throughout the state have been identified with the following favorable conditions: 200 or more acres, transmission lines within 1 mile, slopes of 15% or less, no seismic activity concerns, medium to low risk of natural disasters, and more.

The expansion of customer-cited residential and commercial solar battery storage was explored for its potential to reduce load. According to their estimates, this would reduce up to 690,000 MWh of cumulative load by 2050. Gasification of woody biomass through bubbling fluidized beds is a mentioned renewable energy source. The biomass would be forest residues that could replace the Northside 1 and 2 source fuels of coal and petroleum coke. Unlike coal and petroleum coke, which are finite fossil fuels, biomass can be replenished over time, making it a more sustainable option, as it can be continuously produced and used without depleting natural resources.

**Funding:** Solar and solar storage options require capital costs for solar technology, land, installation, engineering, and more. They also require yearly operation and maintenance costs or long-term major maintenance costs. JEA expects these costs to decrease over time due to technology and construction advances, external contributions, and funding that will substantially accelerate implementation.

**Metrics for Tracking Progress:** JEA currently has several outlook scenarios for their near-term, midterm, and long-term build plans. These scenarios represent possible futures for JEA while recognizing the fluidity of future conditions. The net-zero scenario outlines a building plan through 2051 and outlines the amount of solar and solar storage to be implemented yearly to achieve net zero by 2050. Time for transmission planning, land acquisition, and permitting are all processes considered. Taking the goal



of net zero into account with these limiting factors, a year-by-year plan can be developed to calculate GHG reductions, make predictions, and continue to develop their year-by-year Current Outlook and plan future goals. It is recommended that JEA more clearly subcategorizes energy generation from solar PV and battery into the following: residential customer-sited, commercial customer-sited, and JEA-owned solar PV and battery storage installations.

Regarding the incorporation of biomass into Northside 1 and 2, it is recommended that JEA continues to report on its land acquisitions, new solar developments, and the energy output of existing PV mass of biomass compared to coal and petroleum coke and quantify power generation among its combustion plants and tracks the energy generation output among its fuel sources. An added metric to consider are the reductions of other emissions by reducing the amount of coal and petroleum coke, which have greater emissions of SO2, NOx, VOCs, and NH3 compared to that of woody biomass.

**Authority to Implement:** A municipal electric utility is an electric utility system owned and/or operated by a municipality engaged in serving residential, commercial, and/or industrial customers, usually within the boundaries of the municipality. Municipally owned utility rates and revenues are regulated by their city commission. Most municipal electric utilities are represented by the Florida Municipal Electric Association. JEA <sup>17</sup> owns and operates an Electric System with four generating plants and all transmission and distribution facilities, including 744 circuit miles of transmission lines and 7,336 miles of distribution lines. The governing body is made up of a seven-member board of directors appointed by Jacksonville's mayor and confirmed by the Jacksonville City Council. As a community-owned utility, JEA is not subject to the same state regulations as investorowned utilities, but it is regulated in certain areas of environmental and health matters, power plant location, electric safety, and electric rate structure matters. The Local Ordinance controls JEA's planning processes and procedures to operate.

<sup>17.</sup> Code of Ordinances section regarding the creation of JEA, Article 21, Jacksonville Code of Ordinances: <a href="https://library.municode.com/fl/jacksonville/codes/code\_of\_ordinances?nodeId=CHRELA\_PTACHLACHJAFL\_ART21JE">https://library.municode.com/fl/jacksonville/codes/code\_of\_ordinances?nodeId=CHRELA\_PTACHLACHJAFL\_ART21JE</a>

#### Florida Power and Light (FPL)

**Renewable Energy Sources:** FPL plans to modernize their generation fleet with state-of-the-art natural gas units. The next step is to deploy solar in most parts of FPL's service area. As of late 2021, FPL had approximately 3,164 MW of solar generation capacity and expects to have 12,626 MW by 2031. FPL is also looking to incorporate low-cost battery energy storage, hydrogen fuel cell storage, and expand nuclear power plants.



**Schedule & Milestones:** FPL current has 60 solar power plants and one of the world's largest solar-powered batteries. Like JEA, they are looking to expand their plants and recommend residential rooftop solar PV to their customers. FPL has meaningful milestones in five-year increments to track the progress of achieving net zero by 2050. FPL's five-year goals are as follows: 65% reduction by 2025, 77% reduction by 2030, 83% reduction by 2035, 92% reduction by 2040, and 100% reduction by 2045

**Funding:** Over the past decade, NextEra Energy has invested approximately \$110 billion in infrastructure capital deployment across the U.S. They are working with FPL to fund the infrastructure required to achieve net zero carbon emissions in NEFL by 2050.

**Metrics for Tracking Progress:** FPL tracks service reliability metrics and power plant availability metrics. Reliability metrics will help provide a strong and resilient energy grid despite frequent storms. These metrics, along with tracking emissions over time, will help determine if FPL is on track for a net zero goal by 2050.

**Authority to Implement:** Investor-owned utilities serve over 70% of Florida's electric consumers. Most of Florida's solar generation is currently large scale, although the number of rooftop systems has been increasing. While Florida does not have a Renewable Portfolio Standard or allow Power Purchase Agreements, two policies attributed to facilitating more widespread solar development, large utility-scale solar development has been on the rise. Florida utilities also have individual energy efficiency goals set by the PSC. Generally, FPL operations are conducted according to its Ten-Year Site Planning process, and they are regulated by Florida Statutes and the PSC.

#### Benefits

- **GHG Reduction:** Table 4 shows projected commercial and residential GHG emissions in mtCO<sub>2</sub>e for 2030 and 2050. These values were forecasted based on the GHG inventory and the decarbonization plans of FPL and JEA. This forecast indicates that FPL's Zero Carbon Blueprint would positively impact GHG emissions for these sectors. However, Clay County and Duval County experienced an increase in GHG emissions over time due to increased population paired with no decarbonization plan from their utility provider.
- **Biomass Landfill Diversion:** The combustion of biomass by JEA can be considered carbon neutral as long as the biomass is sourced sustainably, and plants are replanted to absorb CO<sub>2</sub> equal to what is emitted. Furthermore, if the biomass is waste material that was diverted from the landfill, this not only helps in managing waste but also turns it into a valuable energy source. Bubbling fluidized bed systems using biomass typically produce lower levels of harmful emissions compared to burning coal or petroleum coke, as biomass will produce fewer SO<sub>2</sub> and NOx emissions.

### Table 4 GHG Emissions Projections, in mtCO2e, for Residential andCommercial Electrical Usage

| Соипту             | 2019      | 2030      | 2050      |
|--------------------|-----------|-----------|-----------|
| Baker              | 83,420    | 33,900    | 0         |
| Clay               | 830,694   | 3,320,078 | 3,791,019 |
| Duval              | 5,297,213 | 5,129,389 | 7,061,974 |
| Nassau             | 263,407   | 124,512   | 0         |
| City of Palm Coast | 226,169   | 109,246   | 0         |
| St. Johns          | 822,464   | 446,635   | 0         |

#### **Residential Energy Efficiency and Solar Expansion**

Northeast Florida is committed to reducing GHG emissions throughout the region by expanding residential energy efficiency programs, education, toolkits, and increased access to energy efficiency upgrades. Energy efficiency education and tools will include energy efficiency workshops for community members to learn resource-saving strategies. Workshops will be held in disadvantaged communities in trusted public facilities that are easily accessible by the community. The program will provide efficiency Tool kits that may include energy audit equipment, energy and water efficiency devices, and educational materials, and education materials at libraries, community centers, city halls, and other trusted locations.

**Schedule and Milestones**: Assuming the following distribution of energy toolkits, based on population, a utilization rate of 50% every two weeks, and a residential energy reduction of 5% per household, we can estimate a regional GHG reduction of 46,260 mtCO<sub>2</sub>e through 2030 and 231,304 mtCO<sub>2</sub>e through 2050 <sup>18</sup>.

| Table 5 GHG Emissions Projections, in $mtCO_2e$ , for Residential and Commercial |            |                          |                             |                          |   |        |         |
|--|------------|--------------------------|-----------------------------|--------------------------|---|--------|---------|
| Location   | Population | Number of<br>EE Toolkits | Household<br>Checkouts/Year | Energy<br>Reduction, kWh | Average CO <sub>2</sub><br>Reduction per Year | 2030   | 2050    |
| Baker  | 28,263     | 70                       | 0                           | 219,588                  | 66.2  | 331    | 1,656   |
| Clay   | 219,252    | 280                      | 3,791,019                   | 878,350                  | 265.0   | 1,325  | 6,625   |
| Duval  | 995,560    | 1,260                    | 7,061,974                   | 11,857,728               | 7,529.7                                       | 37,648 | 188,241 |
| Nassau   | 88,625     | 280                      | 0                           | 2,635,051                | 795.0   | 3,975  | 19,875  |
| City of Palm<br>Coast  | 87,696     | 70                       | 0                           | 219,588                  | 66.2  | 331    | 1,656   |
| St. Johns  | 264,672    | 280                      | 0                           | 1,756,700                | 530.0   | 2,650  | 13,250  |

**Impact**: Residents may be unaware of changes they can make to improve their energy efficiency and therefore lower their utility bills. Similarly, workshops for community members can further educate on how to increase efficiency. This is especially important in lower-income communities to promote more affordable energy options. Residential energy upgrades, such as improved insulation, energy-efficient appliances, and LED lighting, can complement solar energy systems by reducing overall energy consumption. These upgrades can significantly decrease the amount of electricity required from the grid, leading to further reductions in energy bills and enhancing the cost-effectiveness of solar installations. While there is an initial investment, the combined savings on energy bills can quickly offset the upfront costs, leading to substantial savings over time. Energy upgrades can improve comfort in homes by maintaining more consistent indoor temperatures and reducing drafts. This improves the living environment for residents and can lead to healthier and more comfortable living spaces. Widespread residential energy upgrades can lead to a reduction in the overall energy demand within the community. This can lessen the strain on the local power grid, especially during peak usage times, contributing to a more stable and reliable energy supply for the entire community.

Residential solar energy expansion contributes to greater energy independence for the community. By producing energy locally at the community scale, residents can reduce their vulnerability to external energy price fluctuations and supply disruptions, leading to a more stable and secure energy supply. Solar energy can enhance community resilience, especially in the face of power outages and natural disasters. Homes with solar panels, particularly those equipped with battery storage systems, can maintain power during grid failures, providing crucial energy security.

Homes equipped with energy-efficient upgrades, like high-efficiency HVAC systems or double-paned windows, and solar energy systems often experience an increase in property values. Solar installations are viewed as upgrades, similar to renovations, which can make properties more attractive to potential buyers and contribute to the overall economic health of the community.

#### Funding

There is wide availability of various incentives, rebates, and financing options for homeowners looking to implement solar energy systems and energy efficiency upgrades. One easy-to-search database can be found at: <u>www.dsireusa.org</u> listing over 40 incentives for downtown Jacksonville from JEA's residential and commercial energy efficiency rebates to the IRS's Residential Renewable Energy Investment Tax Credit. These programs can help make residential energy improvements more accessible to a wider range of community members, encouraging broader participation and engagement.

#### Table 6 GHG Emissions Projections, in mtCO,e, for Municipal Solar Expansion

| Municipal Solar<br>Expansion                            | Average CO <sub>2</sub><br>Reduction per Year | 2030            | 2050              |
|---|---|-----------------|-------------------|
| Community Facility EE and Solar upgrades (per facility) | 9,900 - 16,400                                | 59,000 - 98,400 | 257,400 - 426,400 |
| Large Scale Solar<br>(per 1MW installation)             | 62,600  | 375,600         | 1,627,600         |

**Metrics:** For this measure, participating community centers will monitor household checkouts per year and incentivize user feedback on their energy bill reduction and subsequent home energy efficiency improvements that resulted from their initial self-performed energy audit.

#### **LIDAC Impact**

Improving community centers can have a large impact on communities. Having efficient and reliable highperforming centers to build community resiliency is especially important in locations that are prone to natural disasters. Incorporating solar to community centers can decrease energy costs, which can allow nonprofit programs at the community centers to reinvest in their programming for community members. The potential for solar energy expansion can improve social equity. Initiatives like solar projects can offer clean energy benefits to a broader range of residents, including renters and those without ideal roof conditions for solar panels, ensuring that all community members have access to renewable energy and its benefits. This can allow more funding to be allotted to other community-related improvements. Furthermore, converting to solar in community centers and other locations across counties can improve the health of residents living in the area due to lower GHG emissions.

#### **Authority to Implement**

Rule 25-17.0021, F.A.C., Goals for Electric Utilities, implements the PSC's statutory mandate to adopt goals for electric utilities, approve utility plans, and collect periodic reports from utilities related to promoting efficiency and conservation of electric energy as provided in Sections 366.80-366.83 and 403.519, F.S., together as FEECA. FEECA emphasizes reducing the growth rates of weather-sensitive peak demand, reducing and controlling the growth rates of electricity consumption, and reducing the consumption of scarce resources, such as petroleum fuels. The PSC is required by FEECA to establish numeric conservation goals at least once every five years for utilities subject to FEECA. The utilities are required to develop plans and programs to reach those goals and submit them for approval by the Commission. The six electric utilities currently subject to FEECA are Florida Power and Light Company (FPL), Duke Energy Florida, LLC (Duke), Tampa Electric Company (TECO), Florida Public Utilities Company (FPUC), JEA, and Orlando Utilities Commission (OUC).

The PSC's interconnection and net metering rule (Rule 25-6.065, F.A.C.) promotes the development of customer-sited renewable generation by establishing a billing mechanism that allows customers to offset their usage through self-generating energy. Any excess energy delivered to the grid is applied as a kilowatt-hour credit to the customer's monthly energy usage. Since the rule's adoption in 2008, the number of renewable systems has increased from 577 to 189,952 interconnections. Florida's IOUs-Florida Power and Light Company; Duke Energy Florida, LLC; Tampa Electric Company; and Florida Public Utilities – are required by the rule to offer an expedited interconnection agreement process so that homeowners and businesses can generate their own energy quickly and safely. Municipal electric utilities and rural electric cooperatives are also required, by statute, to provide a standardized interconnection agreement and net metering program for customersited renewable generation systems



#### **MUNICIPAL BUILT ENVIRONMENT DECARBONIZATION**

#### **Buildings**

In the region, our local governments can additionally lead by example by committing to reduce the embodied carbon in infrastructure and energy usage of the buildings in their portfolio. To reduce embodied carbon, local governments can prioritize the use of recycled materials and sustainable construction practices, such as modular construction and the reuse of existing structures. Implementing stringent green procurement policies can ensure that materials sourced for new infrastructure or renovations have lower carbon footprints, supporting a circular economy. Additionally, municipalities can invest in life cycle assessments to better understand and minimize the overall environmental impact of their building projects, from material extraction through construction and eventual demolition

The City of Atlantic Beach, the City of Jacksonville, and the City of St. Augustine are leading the charge of decarbonizing their existing building inventory through regular maintenance of energy systems, retrocommissioning, energy audits, energy efficiency, and optimization upgrades to their building BAS systems, lighting, HVAC, electrical, and plumbing systems. Additionally, the City of Jacksonville has established commitments for new construction of municipal buildings to achieve LEED certification. By focusing on lowering their energy consumption first while maintaining code-required indoor environmental quality, they can also further identify opportunities to offset their energy use by installing on-site renewable energy systems. Similarly, Duval County Public Schools (DCPS) has expressed interest in decarbonizing the public schools within the county.

The City of Jacksonville, the City of Atlantic Beach, and the City of St. Augustine are expected to increase in population, naturally increasing the utility use for municipal buildings. Without a decarbonization plan, all three cities would see increases in electricity use and, thus, carbon emissions. Implementing a decarbonization plan would help cities stabilize their emissions over time or decrease them. DCPS expects a decrease in electricity usage over time, but a decarbonization plan would help them measure their carbon and energy reductions so they can confirm they are on track to achieve their goal, and if not meeting their goal, they could implement measures to reduce their carbon emissions more rapidly.

#### Schedule & Milestones

Table 7 illustrates the expected operational carbon emissions for the three cities and DCPS from 2019 to 2030 and 2050. This forecast is based on a recommended goal for municipal building energy of 65% reductions by 2030 and 100% reductions by 2050. DCPS has not identified an operational carbon reduction goal, so their estimate was based on 65% reductions by 2030 and 90% reductions by 2050. Their results could improve or worsen by altering this goal. By achieving these reductions, the City of Jacksonville, the City of Atlantic Beach, St. Augustine, and DCPS can expect to dramatically reduce their carbon emissions for municipal and educational buildings in 2050. Other cities or school districts should be able to implement similar plans and achieve comparable decarbonization results.

| Organizations with<br>Decarbonization Strategies | 2019   | 2030   | 2050 |
|--|--------|--------|------|
| City of Jacksonville                             | 55,434 | 22,259 | 589  |
| City of Atlantic Beach                           | 242    | 96     | 0    |
| St. Augustine                                    | 1,430  | 1,000  | 0    |
| Duval County Public Schools                      | 48,071 | 11,273 | 2932 |

#### Table 7 GHG Emissions Projections, in mtCO2e, for Municipal and Educational Building Decarbonization

#### InFrastructure

In addition to making improvements on the building side, municipalities can make infrastructure changes. The first measure is Permeable Articulating Concrete Blocks (P-ACBs), or permeable paving. This is an interlocking paver that is engineered to have high stormwater infiltration rates. P-ACBs have higher solar reflectance than traditional asphalt pavement (close to that of conventional concrete) with added stormwater management benefits (and associated energy consumption reductions). Additional benefits of P-ACBs include reduced surface and ambient temperature, reduced air pollution, and reduced energy consumption for surrounding buildings.

Secondly, cool pavement can be a good alternative to using dark asphalt. Cool pavements are engineered to reflect more sunlight than conventional dark asphalt, using coatings, sealants, and reflective particles. The benefits of cool pavements include reduced pavement surface temperature, air pollution, ambient temperatures, and energy consumption for surrounding buildings.

Similarly to P-ACBs and cool pavement, low-carbon concrete for sidewalks can be important in reducing GHG emissions and urban heat. With current and in-development innovations, concrete can be carbon neutral or even carbon negative by upgrading manufacturing processes. The benefits of low-carbon concrete include a reduced carbon footprint and a relatively high albedo, reducing extreme urban heat.

Lastly, green infrastructure such as rain gardens, trees, and bioswales are valuable tools for reducing greenhouse gas emissions and improving public health, pedestrian comfort, and the overall quality of life in cities. The benefits of green infrastructure include a decrease in emissions, pollution, stormwater runoff, and urban heat islands. For example, planting additional trees will help reduce surface temperatures by up to 7°F during the day and 22°F at night. This will lead to an overall lower carbon footprint, in alignment with the region's greenhouse gas reduction goals<sup>19</sup>. For the first twenty years of a tree planting, it is assumed that a tree absorbs 10kg of  $CO_2$  per year for the first 20 years<sup>20</sup>. Mature trees, by contrast, absorb 48 kg of  $CO_2$  per year<sup>21</sup>.

#### **Schedule & Milestones**

Table 8 shows the 5-year and 25-year total costs per mtCO<sub>2</sub>e reduced for these strategies.

### Table 8 GHG Emissions Projections, in mtCO<sup>2</sup>e, for Municipal and Educational Building Decarbonization 2030 (5-year plan)

| Decarbonization<br>Strategies   | 2030<br>(5-уеаг ріап)                      | 2050<br>(25-уеаг ріап)                      |  |  |
|---|--|---|--|--|
| Permeable Articulating Concrete Blocks <sup>22</sup>  | 83 mtCO <sub>2</sub> e / 1000 sq ft        | 418 mtCO <sub>2</sub> e / 1000 sq ft        |  |  |
| Cool Pavements  | 83 mtCO <sub>2</sub> e / 1000 sq ft        | 418 mtCO <sub>2</sub> e / 1000 sq ft        |  |  |
| Green Infrastructure (Rain Gardens) <sup>23</sup>   | *  | 328 mtCO <sub>2</sub> e / 10,000 sq ft      |  |  |
| Green Infrastructure (Trees)  | 1 mtCO <sub>2</sub> e / 100 trees annually | 4.8mtCO <sub>2</sub> e / 100 trees annually |  |  |
| Green Intrastructure (Irees) $1 \text{ mtCO}_2 \text{e}$ / 100 trees annually 4.8mtCO <sub>2</sub> e / 100 trees annually |  |   |  |  |

\*Green infrastructure costs are based on the cost of 10,000 sq ft. of rain garden and 100 trees. Therefore, the cost listed under the 25-year plan can fluctuate depending on the maturity and species of the plantings.

20. How Much CO2 Does A Tree Absorb? - One Tree Planted

<sup>19.</sup> https://www.americanforests.org/article/american-forests-launches-nationwide-tree-equity-scores/

<sup>21. &</sup>lt;u>Trees Are Climate Change, Carbon Storage Heroes | US Forest Service (usda.gov)</u>

<sup>22.</sup> https://iopscience.iop.org/article/10.1088/1748-9326/7/2/024004/meta#erl422949fig4

<sup>23.</sup> https://greenvalues.cnt.org/index.php and https://www.sciencedirect.com/science/article/abs/pii/S0959652623039641

#### Funding

Energy efficiency roadmaps are being incorporated into facility improvement plans by municipal organizations, school districts, and companies throughout the nation, and the listed organizations are no exception. As the return on investment with energy efficiency upgrades provide a relatively quick payback, these roadmaps become self-funded. Several federal grants also exist to support capital improvements should the cost effectiveness to decarbonize be prohibitive, which can be found on the <u>Funding and Incentives Resource Hub</u> | <u>Better Buildings Initiative (energy.gov)</u> website.

In its current state, certain infrastructure decarbonization measures can be expensive and not cost effective due to a myriad of factors, including lack of coordination and goal setting during the schematic design phase, lack of appropriate maintenance, lack of market supply and demand, and its indirect effects on GHG reductions. However, grant programs do exist to support municipalities and spur local and regional market transformation, including <u>Grant Program:</u> <u>Reducing Embodied Greenhouse Gas Emissions for</u> <u>Construction Materials and Products | US EPA</u> website.

#### **LIDAC Impact**

Converting to renewable energy sources will have several positive impacts on communities, especially in low-income areas. Additionally, net-zero buildings will reduce energy consumption. This reduction in consumption will provide savings for residents whose taxes go toward municipal and educational buildings. Jobs can also be created within the renewable energy industry which will help provide career opportunities for those living in the area.

The infrastructure changes will help NEFL experience cooler temperatures, and this will specifically help low-income areas. For example, Jacksonville observed an 11.8°F temperature difference across the city, and many of the hottest areas of the city were observed in some of the more socially vulnerable communities, including Eastside and New Town. About half of the school properties and 60% of afterschool care facilities are in areas highly vulnerable to extreme heat, and 34% of households (30,741 households) with individuals over 65 years old are in highly heatvulnerable areas. Extreme heat events are the leading cause of weather-related deaths in the U.S. and implementing strategies to cool NEFL will help provide a safer environment for residents.<sup>24</sup>

#### **Authority to Implement**

Generally, these building designs would be controlled by local building code and the Florida Building Code. The Florida Building Code, 8th Edition (2023), was updated by the Florida Building Commission on June 20, 2023, and was adopted as the building code for the State of Florida.

The Florida Building Code draws on national model building codes and consensus standards amended where necessary for Florida's specific needs. The International Code Council (ICC) is an association that develops model codes and standards for the design, building, and compliance process to "construct safe, sustainable, affordable, and resilient structures." The ICC publishes I-Codes: a complete set of comprehensive models, coordinated building safety and fire prevention codes, for all aspects of construction, that have been developed by ICC members. All 50 states have adopted the I-Codes. The Florida Building Code incorporates all building construction-related regulations for public and private buildings in the State of Florida other than those specifically exempted by Section 553.73, F.S. It is harmonized with the Florida Fire Prevention Code, which is developed by the Department of Financial Services, Office of the State Fire Marshall, to establish unified and consistent standards. In addition to providing standardization of the design, construction. and compliance processes, the Code establishes regulations for the safety, health, and general welfare of building occupants as well as for firefighters and emergency responders during building emergencies. Structural strength means of egress, stability, sanitation, adequate light and ventilation, and energy conservation are addressed. As a performancebased code, builders have flexibility in the means and materials they utilize to meet various compliance standards.

Under some conditions, local governments may amend requirements to be more restrictive than the statewide Code. Any proposed local technical amendments are subject to strict criteria outlined in s. 553.73, F.S., and may not discriminate against materials, products, or construction techniques of demonstrated capabilities. Proposed local amendments are subject to Commission review and adoption into the code or repeal during the triennial update and are subject to appeal to the Commission according to procedures established in s. 553.73, F.S. All local amendments to the Florida Building Code must be adopted by local ordinance and reported to the Florida Building Commission. Without such local technical amendments, some clean energy/green building strategies may be limited to incentive-based regulations such as permit fee waivers, expedited permitting or other strategies.

For any state buildings (each state agency occupying space within buildings owned or managed by the Department of Management Service) located within these jurisdictions, Section 255.257(4) requires the following standards for construction:

- A. Each state agency shall use a sustainable building rating system or a national model green building code for each new building and renovation to an existing building.
- B. No state agency shall enter into new leasing agreements for office space that does not meet Energy Star building standards, except when the appropriate state agency head determines that no other viable or cost-effective alternative exists.
- C. All state agencies shall develop energy conservation measures and guidelines for new and existing office space where state agencies occupy more than 5,000 square feet. These conservation measures shall focus on programs that may reduce energy consumption and, when established, provide a net reduction in occupancy costs.

#### **TRANSPORTATION**

The transportation sector is pivotal in addressing climate change challenges in NEFL. Transportation and mobile emissions are the largest single contributor to greenhouse gas emissions in the NEFL region, contributing 40% of the total emissions in the region. This regional PCAP plan identifies specific strategies developed in coordination with the stakeholders in the following counties: Baker, Clay, Duval, Nassau, Orange, and St. John's Counties, as well as the City of Palm Coast. Significant portions are adopted from the JTA and the North Florida TPO in their efforts to mitigate GHG emissions. It focuses on implementing mode shift strategies, commuter rail expansion by the Jacksonville Transit Authority, and North Florida TPO's clean fuels initiative. The carbon emissions related to the Jacksonville International Airport or other Jacksonville Aviation Authority activities were not available by the publication of this PCAP but will be provided for the Clean Air Northeast Florida CCAP in July 2025.

#### North Florida TPO's Clean Fuels Initiative

**Description:** The North Florida Transportation Planning Organization seeks to transition public and private fleets in the region to more environmentally friendly fuel sources. The goal is to reduce GHG emissions, decrease reliance on traditional fossil fuels, and foster a sustainable transportation network.

The initiative, as highlighted in the North Florida TPO's Clean Fuels Master Plan<sup>25</sup>, involves evaluating the potential for incorporating alternative fuels such as CNG, propane (Autogas), electricity, and biofuels into regional stakeholders' fleet operations.

**Objective:** The initiative examines the operational and economic feasibility of transitioning fleets to clean fuels, considering factors like fuel expenditure, vehicle age, replacement potential, and existing fleet management facilities.

**Implementation:** The strategy includes setting up the necessary infrastructure for alternative fuels, offering financial incentives for adoption, and conducting outreach to educate stakeholders on the benefits of clean fuel technologies.

**Metrics for Tracking Progress:** Monitoring alternative fuel usage and the number of alternative fuel vehicles being used in the region will be the best method of tracking progress. This can be achieved by tracking fuel usage from both public and private fueling stations and registrations of alternative fuel vehicles.

#### **Impact and Benefits**

**Schedule & Milestones:** By replacing traditional gasoline and diesel with cleaner alternatives, the initiative aims to significantly reduce the carbon footprint of the region's transportation sector. Through collaboration with participating organizations, the Clean Fuels Coalition supports organizational alternative fuels goal setting and utilizing grant funding and partnerships to develop supporting infrastructure, like biodiesel fueling stations and EV charging for fleets. This measure is estimated to result in a 72,345 mtCO<sub>2</sub>e reduction through 2030 and a 482,297 mtCO<sub>2</sub>e reduction through 2050.

**Economic Viability:** Considering current conditions and incentives, the assessment provides a base case scenario demonstrating the economic feasibility of transitioning to clean fuels.

**Community Engagement:** The initiative involves collaboration with various stakeholders, including city governments, county commissioners, school districts, and transit authorities, to ensure a comprehensive regional approach to clean fuel adoption.

**LIDAC Impact:** Widespread fossil fuels combustion releases pollutants linked to adverse health effects, including respiratory disorders, cancer, or premature death. Additionally, fossil fuels release carbon dioxide and other greenhouse gases into the atmosphere, contributing to global warming and the rise of sea levels. While everyone is affected by air pollution, low-income communities tend to be more severely impacted because they are more likely to live near facilities that produce pollution, such as landfills, power stations, major roads, and other airborne particulate matter sources. Transitioning to cleaner fuels will improve air quality, mitigate climate change, create jobs, enrich economic development, and reduce transportation costs.

<sup>25.</sup> https://northfloridatpo.com/uploads/Clean-Fuels-Master-Plan-Report\_Final\_240209.pdf

#### **Challenges and Funding**

- Infrastructure Development: A critical step is to establish the required clean fuel infrastructure, which includes setting up fueling stations for CNG and electric vehicles.
- Financial Planning: Securing funding and managing costs are central challenges addressed through partnerships with the Florida Department of Environmental Protection and other entities involved in emissions reduction efforts.

#### Mass Transit Expansion and Mobility Hubs

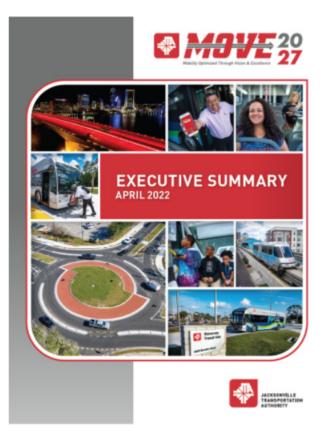
**Description:** The Jacksonville Transportation Authority has identified a shift towards sustainable transportation by expanding mass transit services, mobility hubs, and multimodal transportation. These efforts are encapsulated in JTA's(MOVE2027 (strategic plan and its Sustainability Action Plan, reflecting a commitment to regional connectivity, reduced carbon emissions, and enhanced public transit options<sup>26 27</sup>.

- **Objective:** To reduce greenhouse gas emissions and promote a more sustainable and efficient transportation system by shifting from single-occupancy vehicle use to more sustainable modes such as public transit, walking, and biking, JTA aims to facilitate a significant reduction in the region's carbon footprint.
- **Strategy and Implementation:** To encourage this mode shift, JTA is investing in hybrid electric and CNG buses, recycling programs, bike-sharing programs, and transit signal priority systems.
- **Impact:** Past efforts have already shown success, with GHG emissions avoidance from mode shifting to transit recorded between 2013 and 2017.

#### **Mass Transit Expansion**

In the baseline inventory year of 2019, GEI estimates that up to 23% of travel within the NEFL region is considered outbound travel<sup>28</sup>. GEI considers outbound travel as trips that leave the region boundaries, and this is projected to contribute to 1.6M mtCO2e annually between now and 2050. Considering that several of the NEFL counties consist of residential development that supports the Duval County workforce, it can be assumed that much of this travel can be attributed to commuter transportation, and it can also be assumed that much of this travel will increase similarly with population growth to the region. To effectively drive down emissions, the Northeast Florida region must take great action to develop intercounty mass transit. JTA's First Coast Commuter Rail intends to establish a regional rail network in Northeast Florida, and the JTA Express Select is an existing program that offers morning and afternoon weekday intercounty shuttle service. Both programs aim to enhance the connection between Jacksonville's urban core and the surrounding areas.

The MOVE2027 strategic plan details both JTA's initiative to support regional rail development by completing necessary planning and environmental review processes (Strategy 5.01) and JTA's intention to expand the regional transit network (Strategy 5.03). JTA's approach includes coordinating various modes of transportation, such as rail, waterborne services, and a comprehensive transit network, to create an integrated system that effectively serves the growing population.



<sup>26.</sup> jtafla.com/media/34fnjggb/move2027.pdf

<sup>27.</sup> https://www.transit.dot.gov/sites/fta.dot.gov/files/2022-04/Jacksonville-Transportation-Authority-Sustainability-Action-Plan.pdf

<sup>28.</sup> Google Environmental Insights Explorer - Make Informed Decisions (sustainability.google)

#### **Schedule & Milestones**

According to the JTA Sustainability Action Plan, the 2017 Passenger Miles Traveled was 153M miles. To overcome the transportation emissions and population growth for the region, three gasoline passenger vehicles to diesel bus transit user conversion scenarios are posed:

- Assuming an expansion rate of JTA programs across the region of 10% per year, this would result in 6.9M gallons of gasoline saved and 61,000 mtCO<sub>2</sub>e reduction by 2030 and 111M gallons of gasoline saved and 989,000 mtCO<sub>2</sub>e reduction by 2050.
- Assuming an expansion rate of JTA programs across the region of 15% per year, this would result in 11.4M gallons of gasoline saved and 102,000 mtCO<sub>2</sub>e reduction by 2030 and 361M gallons of gasoline saved and 3.2M mtCO<sub>2</sub>e reduction by 2050.
- Assuming an expansion rate of JTA programs across the region of 20% per year, this would result in 16.8M gallons of gasoline saved and 150,000 mtCO<sub>2</sub>e reduction by 2030 and 1B gallons of gasoline saved and 3.2M mtCO<sub>2</sub>e reduction by 2050.

# **Benefits of Multimodal Transportation**

The mode shift and regional transit network expansion are expected to yield multiple co-benefits:

**Enhanced Accessibility:** By providing diverse transit options and mobility hubs, JTA addresses the mobility needs of all demographic groups, including the aging population and those who prefer non-auto transportation.

**Economic Growth and Resilience:** Companies and cities that invest in and promote the use of mass transit can reap significant benefits in terms of employee well-being and business success. At the individual level, a study from the Brookings Institute shows that, in an assessment of the 100 largest metropolitan areas, only 27% of the workforce can access a typical job by transit in 90 minutes or less<sup>29</sup>. Research shows that shorter commute times are a significant predictor of upward economic mobility<sup>30</sup>. Increased mass transportation reduces absenteeism in the workplace and increases overall productivity. This continuity ensures that projects and tasks are completed on schedule, enhancing the reputation of local businesses and customer experience. Indirectly, fewer car travelers will reduce the amount of parking lot development, which would increase real estate for the development of more affordable housing, businesses, and green spaces. Gainesville, FL has joined cities across the nation to diminish or remove minimum parking requirements<sup>31</sup>.

**Sustainability and Quality of Life:** These transportation initiatives, when in place, would revolutionize the area, leading to less congested streets, reduced noise levels, reduced air pollution, and lower individual and community transportation costs. Commuting via mass transit includes walking to and from stations or stops, which would contribute to daily physical activity. This can improve overall public health and reduce the likely chronic illnesses associated with sedentary lifestyles, such as obesity and cardiovascular illness, which are shown to have a higher incidence of occurrence in low-income and disadvantaged communities.

#### Funding

The Jacksonville Transportation Authority (JTA) is funded through a combination of local, state, and federal sources. JTA's budget is outlined in detail within their Budget Variance Package<sup>32</sup>. Here are a few examples:

**Local Option Gas Tax:** JTA has issued approximately \$100 million in fixed rate bond proceeds secured by JTA's share of the Local Option Gas Tax. The Jacksonville City Council approved a 10-year, 6¢ per gallon gasoline surcharge in 1986 to pay for new roadways and other transportation projects. Prior to its expiration in 1996, the council extended the tax for 20 additional years, until 20162<sup>33</sup>. In 2021, the City Council approved a further extension and increase to 12¢ per gallon.

**Federal Funding:** The JTA also receives funding from federal sources such as the CARES Act funds (\$14.4 million), a Federal Transit Authority grant for bus and bus facilities (\$13.7 million), and Coronavirus Response and Relief Supplemental Appropriations Act funds (\$10.5 million)<sup>34</sup>.

<sup>29.</sup> https://www.brookings.edu/wp-content/uploads/2016/06/11-transit-labor-tomer-full-paper.pdf

<sup>30. &</sup>lt;u>https://scholar.harvard.edu/files/hendren/files/mobility\_geo.pdf</u>

<sup>31.</sup> U.S. cities are getting rid of parking minimums : NPR

<sup>32. &</sup>lt;u>fy23-budget\_jta-variance-package\_coj.pdf (jtafla.com)</u>

<sup>33.</sup> https://www.transit.dot.gov/sites/fta.dot.gov/files/5.15\_930\_JTA\_ROI.pdf

<sup>34.</sup> https://www.bizjournals.com/jacksonville/news/2021/06/07/jta-jobs-for-jax-capital-budget.html

# City of Jacksonville Bicycle and Pedestrian Path Programs

**Description:** The proposed bike-pedestrian programs consist of several projects, including the development of protected/separated bike lanes city-wide, continued development of Jacksonville's Emerald Trail, expansion of COJ's shared use paths network (beginning with the Core-2-Coast and the Emerald Trail, implementation of an E-bike voucher pilot program and an E-bike share program, and construction of shower/locker facilities for government offices.

- **Objective:** Increase active transportation mode share by expanding a safe and connected bicycle facilities network, expand/enhance a trail network that is comfortable, safe, and appropriate for all ages/abilities, and create an E-bike voucher program to provide modal options for underserved communities, offer residents and visitors alike a lower-emissions modal option for commuting, and construct shower/locker facilities for government offices, providing staff with facilities to support an elevation in active transportation.
- **Schedule & Milestones:** COJ bicycle and Pedestrian paths are part of a larger regional master plan of North Florida TPO<sup>35</sup>. Their goals include:
  - Provide an extensive, connected, and convenient on-road network of bicycle and pedestrian facilities throughout the North Florida TPO region. All agencies responsible for constructing and maintaining roadways within the region should continually review and potentially revise their roadway design standards. Maintain a unified inventory and associated map of bicycle and pedestrian facilities within the region every five years. Conduct at least one detailed "priority zone" subarea study identified in this plan per year to identify bicycle and pedestrian needs in those locations. Conduct at least one regional trail connection study for gaps outlined in this plan per year to identify appropriate bicycle and pedestrian facility improvements along those corridors.
  - Improve multi-modal transportation efficiency in the North Florida TPO region. Develop and implement a plan to increase the number of local employers that provide incentives such as bicycle parking, shower/ locker facilities, financial incentives, Use bicycle and pedestrian facilities as part of an overall Congestion Management Plan strategy to maintain or improve motor vehicle levels of service in congested corridors that do not meet adopted LOS standards and flexible schedules to employees who commute to work via bicycle or pedestrian travel. Work with JTA and other public transportation providers to ensure that all existing and future transit shelters and other high-volume stop locations have bicycle racks and other basic amenities.
  - Provide an equitable bicycle and pedestrian network by focusing bicycle and pedestrian planning and facilities to those that need it most. Include an equity element in bicycle and pedestrian planning and programming efforts that focuses on low-income communities, and communities of color that have been disproportionately impacted by inadequate infrastructure. Include demographic elements in bicycle and pedestrian planning and programming efforts that focus on users that are more likely to benefit from and utilize the system including general population density locations, areas of high employment density, areas with a high percentage of zero car households, and concentrated areas of student populations.
- **Impact:** The programs are designed to encourage active transportation, create a lower bicycle level of traffic stress (BLTS) and improved safety, reduce dependency on cars for short trips, provide modal options for underserved communities, tourists, and residents, and lower overall carbon emissions in alignment with the city's GHG reduction goals. Bike lanes and walking paths provide added layers of accessibility and encourage active, healthy lifestyles.
- **Estimated Emissions Reduction:** These programs, in total, are estimated to result in a 1,539 mtCO<sub>2</sub>e reduction per year, reducing emissions by 7,695 mtCO<sub>2</sub>e through 2030 and 38,475 mtCO<sub>2</sub>e through 2050.
- **Feasibility:** Nationwide, most major metropolitan cities have advanced these efforts at a much larger scale and faster pace than COJ. Protected bike lanes are a proven safety countermeasure, resulting in higher ridership and associated benefits. E-bike voucher programs, such as the City of Denver's incentive program, have reduced transportation emissions and increased active transportation mode share.

- **Community Engagement and Feedback:** Regional outreach, master plans, and public surveys have indicated that residents want more bicycle infrastructure that is safe, connected, and suitable for users of all ages and abilities.
- **Metrics for Tracking Progress:** To track the progress of these programs, it is recommended that each be monitored to ensure optimization of utilization. Monitoring of bike usage along with public surveys can be compared to historical data to recognize progress. The E-bike voucher program can be tracked based on the number of vouchers utilized by the public. The progress of the E-bike share program can be tracked through the total fees and/or subscriptions collected by the initiative.

#### **Benefits:**

- **Public Health:** An increase in active transportation mode share means healthier communities through increased mobility and enhanced physical well-being of residents.
- **Environmental Stewardship:** The initiative supports COJ's environmental commitment by fostering a reduction in miles driven, thereby reducing GHG emissions.
- **Economic Development:** The development of these programs is expected to stimulate local economies through increased tourism and recreation-related commerce.
- **LIDAC Impact:** These programs will provide residents and underserved communities with an active transportation option to commute to employment centers, healthcare, retail, schools, places of worship, and other essential services. It is estimated that 80% of new ridership would be from low-income or zero-car households, currently using vehicle ride share or other internal combustion engine (ICE) vehicles for weekly short trips. The E-bike voucher program is specifically designed for lower-income residents, zero car households, and other EJ communities that currently rely on shared car services and other ICE vehicles. These bike programs will create healthier communities, increase safety for bike transportation, increase options and access for underserved communities, reduce transportation costs, and reduce emissions in the region resulting in better overall air quality.

#### Funding

Within the North Florida TPO Bike Ped Master Plan, several projects within Duval, St. Johns, Nassau, and Clay counties are in various states of progress, from planned, partially funded, in progress, and existing. Funding comes from multiple sources, including partnerships with JTA, non-profit organizations, municipal funding, and grants.

# Fleet Transition to Electric Vehicles

**Description:** Northeast Florida is committed to transitioning fleet vehicles to EVs. This is a proven method of reducing GHG emissions and would dramatically reduce emissions in the region.

- **Objective:** Decrease emissions generated by the transportation sector, improve the region's air quality, and serve as a positive example for other entities to follow.
- Schedule & Milestones: Several Northeast Florida . stakeholders are investing in electric vehicles to replace fleet vehicles used every day, including DCPS, JEA, JTA, the City of Atlantic Beach, the City of Jacksonville, and the City of St. Augustine. DCPS is the 6th largest school district in FL and 20th in the nation, with 197 schools servicing 129,000 students (minority enrollment at 70% with 40% economically disadvantaged) and 12,000 employees. The transition aims to reduce the region's carbon footprint by replacing vehicles operating on traditional fossil fuels. Assuming that the existing fleet will be replaced at a rate of 10% per year, implementation of this strategy would be over 10 to 15 years. Electric motors are typically 85% to 90% efficient, whereas internal combustion engines are 20% to 30% efficient. A fleet of 1,000 vehicles with a mix of light-duty, medium-duty, and heavy-duty diesel and gasoline engines would have an estimated carbon footprint of 12,000 to 15,000 mtCO<sup>2</sup>e annually, while a fully electrified fleet supplied energy would use 4M kWh of energy annually and a regional footprint of 2,540 mtCO<sub>2</sub>e. This would result in approximately 12,000 mtCO<sub>e</sub> annually. It is estimated that these transitions, per 1,000 fleet vehicles, will result in a 1,000 mtCO2e reduction through 2030 and up to 186,900 mtCO2e reduction through 2050.
- **Challenges:** Developing infrastructure to properly charge, maintain, and operate these vehicles will be a significant effort. Funding is also a central challenge for this endeavor. With increased demand for EVs in a region without an electric utility decarbonization strategy, this will only displace GHG emissions from the streets to the power generation plants. Upgrading EV fleet parking lots and service areas with Level 2 charging stations may require the installation of larger transformers that can handle the electrical demand. Advanced coordination of business with their electric utility provider is essential for the successful implementation of this strategy.
- Metrics for Tracking Progress: It is recommended that each organization monitor cost, environmental, operational, transition, regulatory and compliance, performance, and stakeholder metrics to better evaluate the effectiveness, costs, and benefits of the EV fleet transition.

Cost metrics include total cost of ownership, fuel savings annually, and maintenance costs. Environmental metrics include carbon emissions and energy consumption for EVs in kWh per 100 miles. Operational metrics include vehicle uptime/downtime, fleet utilization, and charging infrastructure utilization. Fleet transition metrics include adoption rate within the organization, infrastructure development, and employee training and engagement. Regulatory and compliance metrics include range efficiency under various conditions and vehicle reliability. Stakeholder metrics include driver, customer, and community feedback.

#### Benefits

- **Economic:** Future resale values for EVs, which affect the total cost of ownership calculations, increase the financial viability of transitioning the fleet. The demand for a wide range of EV models, from passenger cars and delivery vans to heavy-duty trucks, to meet the diverse needs of EV fleets will also increase the local market availability of EVs. As EV technology matures and production scales up, the total cost of ownership of EVs will decrease, making them more economically viable, including lower costs for batteries, maintenance, and energy consumption.
- **Public Health:** Reducing emissions means healthier communities and wildlife through increased air quality. Improvements in air quality will also reduce asthma attacks, heart attacks and strokes, lung cancer, and premature deaths, especially in those living nearest to transportation corridors.
- Environmental Stewardship: The initiative supports the region's environmental commitment by decreasing the volume of fuel burned, thereby reducing GHG emissions.
- **LIDAC Impact:** Focused job training and educational programs for low-income and disadvantaged populations will support the regional transition of EV adoption and create a knowledgeable workforce of drivers and maintenance staff. Reduced exposure to vehicle fuels and emissions is connected to improved health outcomes.

#### Funding

Local governments may use income from its infrastructure surtax (if applicable to that jurisdiction) to provide loans, grants, or rebates to residential or commercial property owners to install electric vehicle supply equipment, propane fueling infrastructure, and natural gas fueling infrastructure if a local government ordinance authorizing this use is approved by referendum. Table 9 Cumulative GHG Emissions Reduction, in mtCO2e, for the Transportation Sector GHG ReductionStrategies 2050 (25-year plan)

| Transportation GHG Reduction               | 2030                    | 2050     |         |
|--|-------------------------|----------|---------|
| North Florida TPO's Clean Fuels Initiative | 72,345                  | 482,297  |         |
|  | 10% Conversion annually | 61,000   | 919,000 |
| Mass Transit Expansion and Mobility Hubs   | 15% Conversion annually | 102,000  | 3.2M    |
|  | 150,000                 | 9.5M     |         |
| COJ Bicycle and Pedestrian Paths           | 7,695                   | 38,475   |         |
| Fleet Transition to EVs(per 1000 vehicles) | 187,000                 | annually |         |

# Cumulative Transportation Measures Authority to Implement

Section 163.3177(6)(b), F.S., establishes the requirements for transportation and mobility planning in local government comprehensive plans. Comprehensive plans must focus on providing a multimodal transportation system that emphasizes public transportation systems, where feasible, and encourages economic development through flexible transportation and mobility options for Florida communities. In accordance with the Growth Policy Act, local governments may establish a system that assesses landowners the costs of maintaining specified levels of service for components of the local government's transportation system when the projected impacts of their development would adversely impact the system. This system, known as a concurrency management system, must be based on the local government's comprehensive plan. Specifically, the local government comprehensive plan must provide the principles, guidelines, standards, and strategies, including adopted levels of service, to guide the application of its transportation concurrency management system. It is important to point out that whether a local government chooses to use a transportation concurrency system, it is required to retain the level of service standards for its roadways for purposes of capital improvement planning. If a local government elects to repeal transportation concurrency, it is encouraged to adopt an alternative mobility funding system.

# Cumulative Transportation Measures Authority to Implement

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Local governments may use income from its infrastructure surtax (if applicable to that jurisdiction) to provide loans, grants, or rebates to residential or commercial property owners to install electric vehicle supply equipment, propane fueling infrastructure, and natural gas fueling infrastructure if a local government ordinance authorizing this use is approved by referendum. The Florida Department of Transportation (FDOT) had to create a master plan for the development of electric vehicle supply charging stations along the State Highway System by July 1, 2021. FDOT also established staging areas that will include EV charging stations at key locations along the State Highway system to be used as emergency evacuation stops. FDOT published the Electric Vehicle Master Plan in 2021. Florida has taken important steps toward an electrified transportation future. Under the National Electric Vehicle Infrastructure Formula Program, established by the Bipartisan Infrastructure Law, the U.S. Department of Transportation will provide the FDOT with an estimated \$198 million over five years to address EV charging needs for passenger vehicles and light-duty trucks.

# Industrial

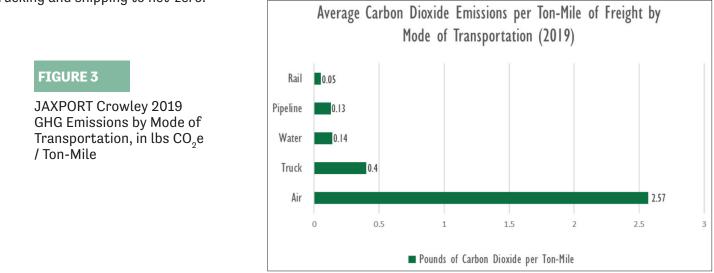
In the Northeast Florida region, Nassau and Duval County stand out as significant contributors to industrial sector emissions, primarily due to the activities of large manufacturing companies in the region. Within the industrial sector GHG inventory, these companies include Westrock Paper Mill<sup>36</sup>, Rayonier Performance Fibers Plant<sup>37</sup>, CMC Steel production<sup>38</sup>, the Symrise facility<sup>39</sup>, Anchor Glass Factory<sup>40</sup>, Anheuser Busch Canning<sup>41</sup>, U.S. Gypsum Manufacturing<sup>42</sup> and IFF Chemical Holdings<sup>43</sup>. These companies collectively play a major role in the area's environmental challenges, and each of them have sustainability commitments that will contribute to identification of regional sector targets for the Clean Air Northeast Florida CCAP, to be released in July 2025.

The Jacksonville Port Authority (JAXPORT) is a major hub for maritime activities in Northeast Florida, contributing significantly to the local and regional economy. It manages several cargo terminals and has been investing in infrastructure improvements to increase its capacity and efficiency. JAXPORT's activities significantly influence carbon emissions in the Northeast Florida area through its maritime and associated logistics operations. The port has been part of projects aimed at enhancing environmental sustainability. Additionally, the port's improvements include the introduction of LNG-powered container ships and new electric container cranes, which contribute to emission reductions by enhancing energy efficiency and reducing reliance on traditional fuels. Such initiatives indicate JAXPORT's commitment to reducing its carbon footprint and contributing to environmental sustainability in the region. The carbon emissions related to JAXPORT activities were not available by the publication of this PCAP but will be provided for the Clean Air Northeast Florida CCAP in July 2025.

Crowley, a logistics, marine, and energy solutions company, holds a long-term partnership with JAXPORT, and both groups are looking to work together to decrease GHG emissions. In 2022, Crowley and JAXPORT were awarded a federal grant to support a 14.6-million-dollar project to reduce emissions and add electric power equipment at Crowley's terminal<sup>44</sup>. The grant, funded 50% by the U.S. Department of Transportation and matched by Crowley, will facilitate the addition of zero-emissions equipment and charging stations. This initiative, part of the larger JAXPORT EXPRESS project, signifies a significant move towards sustainability and efficiency in supply chain operations, underscoring a joint commitment to a cleaner, decarbonized environment.

# **Green Shipping Corridor**

Description: The shipping business conducted through JAXPORT and Crowley is an important economic sector to Jacksonville. However, that comes at the cost of high GHG emissions in the area. The following chart shows the average carbon dioxide emissions per ton-mile of freight, and trucks and water transportation are among the top highest emitters. Crowley has established a five-phase initiative to reduce GHG emissions by transitioning trucking and shipping to net-zero.



36. westrock.com/-/media/pdf/sustainability/westrock-sustainability-report-2022-pdf.pdf?sc\_lang=en

- 37. Sustainable from the Start RYAM
- 38. CMC\_2021\_Sustainability\_Report.pdf
- 39. Sustainability and Responsibility | Symrise CR 2021
- 40. <u>Sustainability | Premiere U.S. Glass Manufacturing | Anchor Glass Container Corp.</u>
- 41. <u>Environmental Sustainability | Anheuser-Busch</u>
- 42. Sustainability American Gypsum
- 43. <u>Sustainable Solutions | IFF</u>
- 44. Crowley, JAXPORT Awarded Grant to Make Terminal More Sustainable | Crowley

- **Objective:** Decrease emissions by implementing carbon capture processes, electric vehicles, and renewable LNG into Crowley's business.
- **Schedule & Milestones:** Crowley proposed a five-phase plan to slowly incorporate all the changes to this strategy.

#### Phase 1: Carbon Capture on Class 8 Trucks

- Deploy a carbon capture system on Class 8 diesel trucks that operate between Jacksonville and Atlanta. This phase would first be implemented for newer diesel trucks in the fleet that would not need replacing soon.
- 120 tons CO<sub>2</sub>e per year per Class 8 truck.

#### Phase 2: Zero-Emission Class 8 Trucks

- Deploy battery-electric Class 8 trucks that operate between Jacksonville and Atlanta. These trucks could reliably operate for 400 miles on a single charge or recharge in a similar amount of time it takes to refuel a diesel truck. This phase would first be implemented for trucks in the fleet that need replacing.
- 400 tons CO, e per year per truck.

#### Phase 3: JAXPORT Emissions Reductions

- Build upon an existing project that seeks to deploy zero-emission cargo handling equipment, terminal support vehicles, renewable microgrid-backed DC fast charging infrastructure, and zero-emission drayage trucks for local service.
- 120 tons CO<sub>2</sub>e per year per Class 8 truck
- 60 tons CO<sub>2</sub>e per year per truck
- 40 tons CO<sub>2</sub>e per year per UTR

#### Phase 4: Carbon Capture on U.S. Ships/Vessels

- Implement a carbon capture system to oceangoing ships/vessels that operate between Jacksonville, Puerto Rico, and the Caribbean. It would capture emissions from the exhaust stream and compress and store the emissions aboard the vessel for offloading in port. Whereafter, the captured gases would be sent for permanent sequestration or purification and subsequent utilization.
- 260 mtCO<sub>2</sub>e per year, but 2,000+ mtCO<sub>2</sub>e per year by 2030

#### Phase 5: Renewable LNG for Oceangoing Vessels

- The final phase seeks to liquify renewable methane and use it as a net-zero fuel for Con-Ro vessels servicing the Caribbean and Central America.
- 19,200 mtCO<sub>2</sub>e per year

- **Challenges:** Challenges of this strategy include coordination with municipalities in other states, countries, or territories to incorporate components like EV charging stations or carbon offloading from vessels. Additionally, there are cost barriers to some components. For example, there is a significant cost barrier to procuring renewable natural gas due to the regulatory incentive available to compete with less efficient modes of transportation.
- **Metrics for Tracking Progress:** There are several important metrics to track the progress of this reduction strategy. Cost metrics include total cost of ownership, fuel savings annually, and maintenance costs. Environmental metrics include carbon emissions and energy consumption for Class 8 trucks, oceangoing ships, cargo handling equipment, terminal support vehicles, and more. Operational metrics include vehicle uptime/ downtime, fleet utilization, and charging infrastructure utilization. Fleet transition metrics include adoption rate within the organization, infrastructure development, and employee training and engagement.

#### Benefits

- **Economic:** The demand for a wide range of EV models, from passenger cars and delivery vans to heavy-duty trucks, to meet the diverse needs of EV fleets will also increase the local market availability of EVs. As EV technology matures and production scales up, the total cost of ownership of EVs will decrease, making them more economically viable for individuals and businesses, including lower costs for batteries, maintenance, and energy consumption. Additionally, the implementation of this strategy will provide opportunities for new jobs, including vessel construction, vessel operation crew, and port terminal operations.
- **Public Health:** Reducing emissions means healthier communities and wildlife through increased air quality. • Improvements in air quality will also reduce asthma attacks, heart attacks and strokes, lung cancer, and premature deaths, especially in those living nearest to transportation corridors.
- **Environmental Stewardship:** The initiative supports the region's environmental commitment by decreasing the volume of fuel burned, thereby reducing GHG emissions.
- **LIDAC Impact:** Crowley has several programs to help low-income communities, including Crowly Impact, Crowley Cares, and the volunteering efforts of Crowley employees. Furthermore, the company has invested in the Crowley Center for Transportation and Logistics at UNF and is working expeditiously to leverage further investment to expand cross-sector collaboration to advance the workforce pipeline and develop new curriculum pathways for all ages and backgrounds. We see a future state in which local students are introduced to topics and concepts at key developmental stages to support interest in and commitment to pursuing the various educational pathways for meaningful careers in sustainable transportation, trade, and logistics. To support this future, Crowley also offers scholarships for trade schools, certifications, and college degrees. The financial and informational support that Crowley offers can provide more educational and career opportunities to residents of NEFL.

| Table 10  | missions <b>H</b> | Reduction by Phase, in                     | mtCO <sub>2</sub> e |               |                       |                         |                       |                         |
|-----------|-------------------|--|---------------------|---------------|-----------------------|-------------------------|-----------------------|-------------------------|
|           |                   |  |                     |               | 20                    | 30                      | 20                    | 050                     |
|           |                   | Reduction per<br>Unit, mtCO <sub>2</sub> e | Иитрег              | Adoption Rate | Vehicles<br>Converted | Annual GHG<br>Reduction | Vehicles<br>Converted | Annual GHG<br>Reduction |
| Phase 1 - | + Phase 2         | 109  | 135                 | 15%           | 75                    | 8,186                   | 135                   | 14,715                  |
| Phase 3   | UTR               | 37   | 2                   | 15%           | 1                     | 41                      | 2                     | 73                      |
|           | Local<br>Drayage  | 52   | 4                   | 15%           | 2                     | 115                     | 4                     | 206                     |
| Phase 4   | + Phase 5         | 2,000                                      | 10                  | 15%           | 6                     | 11,126                  | 10                    | 19,163                  |

#### Funding

The Jacksonville Port Authority seeks partnerships with Crowley and other organizations for grant pursuits to pilot emerging technologies for carbon capture and carbon reduction.

#### Authority to Implement:

The Jacksonville Port Authority was created by a special act of the Florida Legislature in 1963 to develop, maintain, and market Jacksonville's port facilities. The specific powers and duties of the Port are controlled by statute and local code<sup>45</sup>. Within the authority of the Port is the power to control projects, issue bonds, and enter into agreements with various Port service providers. All these authorities can be used to control land-based port operations that can achieve any GHG reduction goals or strategies the Port adopts. It should also be noted that various Federal agencies are involved in the development of rulemaking on GHG Standards for medium and heavyduty trucks.

It should be noted also that ship air pollution standards are contained in the International Convention for the Prevention of Pollution from Ships (MARPOL) and regulated by the International Maritime Organization, a UN Agency. Specifically, Annex VI of MARPOL sets NOx limits for marine engines and sulfur limits for marine fuels to reduce SOx and PM. Compliance is ensured by periodic inspections and surveys, as well as flag state and port state control. EPA standards for exhaust and evaporative emissions reduce the environmental impact of marine spark-ignition engines and vessels. The emission standards require manufacturers to control exhaust emissions from the engines and evaporative emissions from fuel tanks and fuel lines.

<sup>45. &</sup>lt;u>https://library.municode.com/fl/jacksonville/codes/code\_of\_ordinances?nodeId=CHRELA\_PTBRELA\_ART5JAPOAU\_S3PO#:~:text=The%20</u> Jacksonville%20Port%20Authority%20shall,boundary%20lines%20as%20hereinafter%20provided.

# **SOLID WASTE & WASTEWATER**

# City of Palm Coast Wastewater Efficiency

The City of Palm Coast faces a challenge in wastewater operations during heavy rainfall events, emphasizing the negative impact on efficiency, energy consumption, and costs. The primary issues include stormwater infiltration leading to increased pumping demands, safety concerns, and financial implications due to the deployment of pump trucks.

The proposed solution involves implementing pipe and maintenance hole lining to mitigate the impact of stormwater inflow and infiltration, particularly during high rainfall events.

The proposed pipe and maintenance hole lining implementation in the City of Palm Coast's wastewater infrastructure presents a promising avenue for reducing GHG emissions.

**Energy Efficiency:** The project's primary goal is to enhance energy efficiency by minimizing stormwater infiltration during heavy rainfall events. By addressing this issue, the City aims to optimize wastewater operations, resulting in lower energy consumption. The National Renewable Energy Laboratory (NREL) identifies infiltration, inflow, and leaks in wastewater systems as areas where energy is often wasted. The proposed solution directly targets these inefficiencies, potentially leading to substantial energy savings<sup>46</sup>.

**Decreased Pumping Demands:** The energy systems affected are the lift stations, transfer pumps, and pumps within the wastewater treatment plant. The project's focus on preventing stormwater from entering the wastewater system can reduce the demands on pumping stations during rainfall events. This reduction in pumping demands translates to lower energy usage and, thus, a positive impact on GHG emissions.

**Reduced Diesel Fuel:** During intense or prolonged rain, drainage systems are overwhelmed and can lead to street flooding. In these scenarios, sanitary sewer overflows (SSOs) release raw sewage before it reaches the wastewater treatment facility . Because raw sewage contains bacteria and solids that can endanger human health and the environment, The City of Palm Coast has developed a systemic response to deploy trucks to pump this water and divert it from neighborhoods and back to water treatment facilities. **Financial Energy Savings:** In addition to energy savings, the improvements will have reduced the use of chemicals during the treatment process, such as sodium hypochlorite and other sterilizing agents.

**Trenchless Pipe Repair:** A trenchless pipe repair method that uses cured-in-place pipe lining enhances the project's eco-friendliness. This method minimizes disruptions associated with traditional excavation, resulting in a more sustainable approach to infrastructure improvements.

Metrics for Tracking Progress: It is recommended that volume reduction, energy consumption, GHG emissions, costs, water quality, system performance, and stakeholder impact metrics. Reduced inflow and infiltration volume can be gauged by comparing pre- and post-upgrade flow rates during wet weather conditions. Track the number and volume of SSOs before and after upgrades. Energy usage at the lift stations, transfer pumps, and wastewater treatment pumps should be monitored and tracked with 1-inch rainfall events. Diesel consumption by the emergency response trucks should be tracked annually. Cost metrics should incorporate costs associated with operating and maintaining the wastewater systems before and after upgrades, energy costs, emergency response costs, and avoidance of SSO penalties. It will also be necessary to evaluate the wastewater system's effective capacity, assess changes in the expected lifespan of the infrastructure, and collect community feedback on the occurrence of SSOs and odors.

#### Benefits

LIDAC: Low-income and disadvantaged communities stand to benefit from enhanced public health, economic benefits, improved systems resilience and environmental conditions, and odor reduction. The City of Palm Coast plans to redirect 25% of the financial energy savings generated within the program's first ten years to waive water utility connection fees for new workforce/affordable housing construction. This community-focused approach contributes to long-term sustainability and aligns with broader environmental and social goals. The reduction of SSOs will contribute to cleaner water in ponds, streams, and recreational areas. Strengthened infrastructure improves resiliency to extreme weather events and reduces property damage. Finally, investment in these upgrades will lead to temporary jobs during the construction phase and potential permanent positions for system maintenance and operation.

<sup>46. &</sup>lt;u>Energy Efficiency Strategies for Municipal Wastewater Treatment</u> <u>Facilities (nrel.gov)</u>

<sup>47. &</sup>lt;u>NPDES: Stormwater Best Management Practice, Preventing</u> <u>Stormwater Contamination from Sanitary Sewage (epa.gov)</u>

#### **GHG Reduction Calculations**

To calculate the GHG reduction, information regarding rainfall exceeding one inch in the year 2023 within the City of Palm Coast was sourced from the National Oceanic and Atmospheric Administration (NOAA) database. Additionally, data pertaining to a specific rainfall event surpassing 1 inch and the average energy consumption in kWh emitted from the five master pump stations were acquired from the Palm Coast Wastewater Department. The conversion factor utilized to translate kWh to CO<sub>2</sub>e stands at 0.004.



|                           | Average<br>Annual GHG<br>Reduction | 2030  | 2050   |
|---------------------------|------------------------------------|-------|--------|
| 5 Master Pump<br>Stations | 35.9                               | 215.5 | 933.78 |

#### Funding

The City of Palm Coast has allocated funds in its five-year Capital Improvement Plan (CIP) for maintenance holes and piping, with additional annual funding sought to optimize operations in extreme weather conditions. City of Palm Coast seeks additional grant funding to expedite their improvements timeline.

# Solid Waste – Commercial Composting Program

**Description:** In the Northeast Florida region, several cities actively participate in a survey to assess their readiness and plans for GHG reduction measures. These cities include Jacksonville, Atlantic Beach, and St. Augustine, each presenting unique programs to address environmental sustainability. Waste management strategies for the cities include composting, and both Jacksonville and St. Augustine also strive to implement waste-to-energy innovations.

**Objective:** To increase composting and waste-to-energy innovations around multiple cities.

• Impact: Yard and food waste are leading causes of methane in landfills. This initiative aims to create compost and fertilizer for local agriculture, community gardens, and clean energy production.

#### **Schedule & Milestones**

- **City of Jacksonville:** Building upon an already existing program, the City of Jacksonville aims to assess its readiness and plans for GHG reduction measures. A specific measure, the "Expansion of COJ Commercial Composting Program," focuses on diverting organic waste to create compost and fertilizer for local agriculture, community gardens, and clean energy production. COJ has no timeline for its implementation as of yet and aims to achieve funding through grant opportunities.
- **City of St. Augustine Composting:** The City of St. Augustine has expressed interest in participating in a composting waste and material management program. As part of their commitment to environmental sustainability, the city is exploring opportunities to contribute to waste reduction efforts and promote a greener community. Currently no timeline for this measure exists.
- **City of St. Augustine Waste Diversion:** The City of St. Augustine commits to a GHG reduction measure focused on waste diversion. The program aims to reduce organic waste from restaurants and hotels in the city's historic district, which serves over 5,000,000 visitors annually. This initiative falls within the EPA's economic sector classification of Waste and Materials Management and is categorized as a near-term program to be implemented in the next five years.
- **City of Atlantic Beach:** The City of Atlantic Beach has expressed interest in participating in a composting waste and material management program for local beaches or residential areas. This program would include a drop-off or curbside collection option for residents or businesses. City of Atlantic Beach is exploring public-private partnerships for its implementation.

#### Benefits

- **GHG Reduction:** Composting and waste diversion prevent organic materials from entering landfills. When introduced to landfills, these materials are emitted into the atmosphere as methane, a harmful GHG. It is assumed that GHG released by organic waste is reduced by 30% when it is diverted from landfills to create compost and fertilizer for local agriculture and community gardens per the California Air Resources Board and that the amount of yearly GHG reductions will stay consistent at 2019 levels. The average restaurant produces 25 wet tons of food waste each year. Table 11 displays varying adoption scenarios and their associated annual GHG reduction.
- **Agriculture:** Composting and waste diversion creates an opportunity to reallocate organic materials from food and yard waste that would otherwise go to landfills. It can create healthy fertilizer for local agriculture, reduce erosion, and conserve water.
- **LIDAC Impact:** By diverting organic waste to create compost and fertilizer for local agriculture and community gardens, the program can contribute to addressing food insecurity in low-income areas. This is particularly crucial for communities that may have limited access to fresh and healthy food options. The program also offers potential economic opportunities for residents, including job creation and workforce development. By participating in composting activities or related industries, members of the LIDAC community can gain valuable skills and employment opportunities, contributing to economic development and empowerment. Finally, by reducing the amount of organic waste sent to landfills, the program helps mitigate methane emissions, which are potent greenhouse gases. This contributes to improved air quality and public health, benefiting all residents, particularly those in vulnerable communities who may be disproportionately affected by air pollution.
- **Community Engagement and Education:** The program provides opportunities for community engagement and education on sustainable waste management practices. By involving residents in composting initiatives and educational campaigns, the program fosters a sense of ownership and environmental stewardship within the LIDAC community.
- **Support for Local Initiatives:** The program supports local initiatives aimed at environmental sustainability and waste reduction. By partnering with community organizations and leaders, the City of Jacksonville can ensure that the Compost Program's benefits reach the LIDAC community effectively.

Table 12 Cumulative GHG Emissions Reduction, in mtCO<sub>2</sub>e, for the Municipal Composting GHG Reduction Strategies

| Municipality     | Adoptioп<br>Rate | Average<br>Annual<br>GHG<br>Reduction | Estimated Total<br>Reduction by<br>2030 | Estimated<br>Total Reduction<br>by 2050 |
|------------------|------------------|---------------------------------------|---|---|
| City of          | 10%              | 11,953                                | 717                                     | 310,773                                 |
| Jacksonville*    | 30%              | 35,840                                | 215,040                                 | 931,842                                 |
|                  | 50%              | 59,703                                | 358,217                                 | 1,552,274                               |
| City of Atlantic | 10%              | 102                                   | 612                                     | 2,652                                   |
| Beach            | 30%              | 306                                   | 1,836                                   | 7,957                                   |
|                  | 50%              | 510                                   | 3,060                                   | 13,262                                  |
| City of St.      | 10%              | 141                                   | 846                                     | 3,666                                   |
| Augustine        | 30%              | 423                                   | 2,538                                   | 10,998                                  |
|                  |                  | 705                                   | 4,230                                   | 18,330                                  |

#### Funding

Each organization is actively seeking grants and public-private partnerships to cover their program's capital costs. These organizations are ready to assume long-term program costs and program expansion.

# Solid Waste – Trail Ridge LandFill Upgrades

#### Description

Landfills emit harmful gases to the atmosphere, and the City of Jacksonville Trail Ridge landfill serves Duval County, Alachua, Baker, and Nassau Counties. Trail Ridge Landfill releases an estimated 12,873 mtCO<sub>2</sub>e in methane annually. With a global warming potential at least 28 times greater than CO<sub>2</sub> and short atmospheric life, methane is a potent greenhouse gas that is a key contributor to global climate change. Reducing methane emissions from landfills is an effective way to achieve near-term beneficial impact in mitigating global climate change. Trail Ridge Landfill upgrades address community-wide methane emissions and aim to upgrade the landfill for more efficient gas collection and conversion to Renewable Natural Gas (RNG).

- **Objective:** The first objective is to collect Landfill Gas (LFG) and reuse it in generators for power or purification. Secondly, a geosynthetic liner would be installed on top of the closed areas of the landfill to prevent gas emissions.
- **Impact:** In addition to the GHG reduction value, methane contributes to tropospheric ozone levels as an ozone precursor.

#### **Schedule & Milestones**

- **Gas Conversion:** The City of Jacksonville is seeking an agreement with a local company to receive LFG from the Trail Ridge Landfill. The city would install gas lines within the waste cells, which could then be piped to a third party for treatment and reuse. For example, the gas could travel to a manufacturing facility for additional process heating. No timeline for this measure exists as of yet.
- **Geosynthetic Liner:** Many areas of the Trail Ridge Landfill have reached capacity and are closed off at the top by impermeable clay. However, this clay may develop cracks over time, releasing atmospheric gases. A geosynthetic liner would help prevent these gases from escaping. This liner can be installed on top of landfill areas that have reached their capacity. Similarly, the liner can be welded to various infrastructures like gas wells that have the potential to allow gases to escape.

#### Benefits

- **Gas Conversion:** This project takes gases, primarily methane, that would otherwise be emitted into the atmosphere. Reentry of landfill gas as a power source further diversifies the power grid and reduces our dependence on foreign fuel sources. Utilizing existing Municipal Solid Waste (MSW) landfills to produce electricity is an economical strategy for creating new renewable energy generation capacity to meet the power requirements of the community. LFG can function as a "baseload renewable," offering an online availability rate of over 90%.
- **Reduced Air Pollution Through Non-Renewable Source Offsetting:** Generating energy from LFG reduces reliance on non-renewable resources like coal, oil, and natural gas. This helps in avoiding emissions of CO2 and other pollutants such as sulfur dioxide, particulate matter, nitrogen oxides, and hazardous air pollutants from power plants and fossil fuel users.
- **Health and Safety:** The process of incinerating LFG to generate electricity effectively eliminates most nonmethane organic compounds, including hazardous air pollutants and Volatile Organic Compounds (VOCs), which are found in low concentrations in uncontrolled LFG. This significantly mitigates potential health hazards posed by these compounds. Moreover, collecting the gas enhances safety by preventing the risk of explosions due to gas build-up in or around structures near the landfill.
- **Reduced Environmental Compliance Costs:** Presently, the Clean Air Act mandates that the EPA enforce regulations requiring larger landfills to gather and burn LFG. There are multiple ways to comply with these regulations, such as flaring the gas or setting up an LFG energy recovery system. However, only the implementation of an LFG energy recovery system allows communities and landfill owners to convert pollution into a beneficial resource, thereby offsetting the expenses related to regulatory compliance.

Table 13 Cumulative GHG Emissions Reduction, in mtCO<sub>2</sub>e, for the Transportation Sector GHG Reduction Strategies

| Landfill    | Capture Rate | Average<br>Annual GHG<br>Reduction | 2030      | 2050      | Homes<br>Provided Energy<br>Each Year by<br>Captured<br>Methane |
|-------------|--------------|------------------------------------|-----------|-----------|---|
| Trail Ridge | 60%          | 360,444                            | 1,802,220 | 9,011,100 | 2,053   |

#### Funding

City of Jacksonville is currently exploring opportunities for methane capture for renewable energy. It is also actively seeking grant opportunities to help establish these technologies in the Northeast Florida region.

#### LIDAC Impact

Through this initiative, the community stands to experience improved air quality and potential cost savings, alongside reductions in emissions. Long-term exposure to LFG is associated with a decline in lung function and increased rates of asthma<sup>48</sup>. By upgrading the landfill for more efficient gas collection and converting it into Renewable Natural Gas (RNG), the project not only addresses community-wide emissions but also supports enhanced air quality in surrounding areas, leading to better public health outcomes. Additionally, the expansion of landfill energy generation potential holds promises for further environmental and economic gains. From the Landfill Methane Outreach Program's LFG cost-Web, for \$5 million dollars of expenditures, there is an economic output between \$12-13 million and up to 80 jobs created. With collaboration from local businesses and JEA, the project aims to pioneer scalable solutions in landfill gas utilization, highlighting its transformative impact. Supported by key stakeholders, including the Director of Public Works and COJ Environmental Programs Manager, this initiative underscores Jacksonville's commitment to sustainability and the well-being of its LIDAC community.

#### Cumulative Wastewater and Solid Waste Measures Authority to Implement

For local governments, solid waste and wastewater functions are generally delegated to the local government and can be outsourced through franchise agreements, operated internally, or other structures. Therefore, the authority to implement solid waste strategies is going to be variable across the region.

<sup>48.</sup> ATSDR - Landfill Gas Primer - Chapter 3: Landfill Gas Safety and Health Issues (cdc.gov) 20210111-CLAM\_Final\_Word (nassaucountyfl.com)

# Agriculture, Forestry, and Other Land Use

The State of Florida is one of the fastest growing in the country. As of 2022, Florida's population reached 22,244,823, over nine times greater than its 1946 population of 2,440,000. Such incredible growth has undeniable benefits but also places a strain on infrastructure and encroaches on our unique natural resources. With some counties projecting population growth in the range of 40-60% in the next decade, it is necessary to implement strategic measures to maintain Florida's most important asset - its rich natural and cultural heritage.

Some local municipalities have already established new parks under this model. Marineland created a "Geo Park" to preserve environmentally sensitive land and is seeking funding to develop additional parks. The City of St Augustine acquired Fish Island Preserve in November 2019 as part of the Northeast Florida Blueway Forever Project, preserving land in imminent danger of development.

#### **Land Acquisition**

**Description:** In collaboration with the North Florida Land Trust, Nassau County has developed a comprehensive Conservation Lands Acquisition and Management (CLAM) conservation plan<sup>49</sup>. The primary goals are addressing water issues, species and habitat protection, outdoor recreation, and quality of life, and the secondary goals include preserving working lands such as farms, ranches, and timberlands. Coupled with sustainable farming and agricultural practices, Nassau County can maximize the land's ability to function as a carbon sink to the area.

Land acquisition can also lead to the creation of alternative transit corridors, as seen in the City of Jacksonville's Emerald Trail plan. Creating new pedestrian and biking corridors would connect residents, businesses, and amenities, potentially reducing transportation-related carbon emissions and increasing the viability of intermodal passenger transport.

#### **Schedule & Milestones**

- **Objective:** Nassau County would like to acquire 100,000+ acres of land, which has been identified and prioritized for acquisition to preserve wildlife and enhance resiliency<sup>50</sup>. This land acquisition plan has overwhelming support from county residents, who voted to expand their budget by \$30M.
- **Impact:** Preserving undeveloped land benefits air quality, and carbon capture improves public health and well-being and can lead to expanded tourism opportunities. Maintaining wildlife habitats and provisioning for wildlife corridors allows wildlife to avoid roadways and human infrastructure, protects biodiversity, and enhances ecosystem resilience. Forested lands are crucial in absorbing and sequestrating carbon dioxide and other greenhouse gases. According to the USDA, forested lands have an uptake average of 0.6 metric tons of carbon per hectare per year, whereas agricultural lands have an uptake average of 0.1 metric tons of carbon per hectare per year. As the Nassau County CLAM plan grouped Agriculture and Forestry as one type of land, the average uptake value was estimated to be 0.5. Natural Areas and their soils also have a more modest uptake average of 0.1 metric tons of carbon per hectares per year of 0.1 metric tons of carbon per hectares average of 0.1 metric tons of carbon per hectare per year. As the Nassau County CLAM plan grouped Agriculture and Forestry as one type of land, the average uptake value was estimated to be 0.5. Natural Areas and their soils also have a more modest uptake average of 0.1 metric tons of carbon per hectare per year. According to the Nassau County Land Development Plan, developed land for population growth through 2030 is anticipated to be 10.4 hectares and could expand to another 9 hectares with the same development to population growth projections applied53. However, with a land acquisition rate of 5 hectares of forested and agricultural lands over the next 25 years, and new development focused on non-forested lands, GHG reduction from natural land carbon sinks will remain stable through 2030 and 2050.

<sup>49. 20210111-</sup>CLAM\_Final\_Word (nassaucountyfl.com)

<sup>50. 082522-</sup>CLAM-Map (nassaucountyfl.com)

Table 14 GHG Emissions Reduction, in mtCO,e, for Nassau County Land Use and Development

| Land Use Type            | 2019 Land Area,<br>hectares | 2019 Average<br>Аппиаl GHG<br>Reduction | 2030 Land<br>Area, hectares | 2030 Annual<br>GHG Reduction | 2050 Land<br>Area, hectares | 2050 GHG<br>Reduction |
|--------------------------|-----------------------------|---|-----------------------------|------------------------------|-----------------------------|-----------------------|
| Agriculture and Forestry | 77,336                      | 38,668                                  | 77,338                      | 275,755                      | 77,341                      | 38,671                |
| Natural Areas            | 73,924                      | 7,392                                   | 73,914                      | 7,391                        | 73,905                      | 7,391                 |
| Developed / Urban Land   | 20,630                      |   | 20,640                      |                              | 20,649                      |                       |

#### Benefits

- **Public Health:** Promoting rural lifestyles and providing equitable access to conservation lands through a county-wide network of trails and blue ways, enhancing alternate transportation options and quality of life.
- **Ecological Resilience:** Preserving sensitive environments maintains Florida's bountiful natural beauty and biodiversity. Conservation areas allow wildlife to range while reducing potentially dangerous interactions with human roadways and development.
- Alternate Transportation Options: Developing new pedestrian and bicycle transit corridors reduces reliance on traditional transportation options, significantly impacting carbon emissions.
- **LIDAC Impact:** Air pollution can lead to respiratory diseases, including Chronic Obstructive Pulmonary Disease and asthma, and has further been linked to neurological disorders and inflammation. Low-income communities are disproportionately impacted by air pollution from stationary sources such as factories and power plants, as well as mobile sources brought about by proximity to truck routes and highways. These communities are also less likely to benefit from political representation and the enforcement of emissions regulations. The creation of vegetated parks and corridors through land acquisition would lead to a direct reduction in air particulates and may lead to reduced reliance on vehicle travel, thereby improving air quality and quality of life for residents.

Disadvantaged communities also face greater heat than their counterparts. Mad-made surfaces, such as concrete, tend to absorb heat, and structures can create an "urban canyon" effect by blocking wind. Higher temperatures increase reliance on power generation and cooling, which in turn become a source of heat. Cities experience 1-7°F temperatures higher than the surrounding countryside, and EPA data shows that the frequency of heat waves has increased from two per year in the 1960s six per year in the 2010s and 2020s. Furthermore, a 2021 study was able to show a correlation between low-income and minority communities and elevated urban surface temperatures compared with other communities within the same city.

Increasing vegetation through land development helps to mitigate the factors contributing to the urban heat island effect. Trees provide shade and can even cool their surroundings through transpiration and evaporative cooling - an effect of energy being absorbed by water when it changes states from liquid to gas. The EPA estimates urban forests are, on average, 2.9°F cooler than unforested urban areas. Expanding parkland, planting street trees, and installing "green/ cool roofs" coupled with the use of reflective coatings would provide heat relief for our communities, particularly those that are most vulnerable.

<sup>51. &</sup>lt;u>Greenhouse Gas Emissions and Removals From Forest Land, Woodlands, Urban Trees, and Harvested Wood Products in the United</u> <u>States, 1990–2021 (usda.gov)</u>

<sup>52. &</sup>lt;u>Carbon sequestration in agricultural lands of the United States (usda.gov)</u>

<sup>53. &</sup>lt;u>Microsoft Word - 9-Future Land Use Element DandA \_Clean Copy\_.doc (nassaucountyfl.com)</u>

#### Funding

In November 2022, 68% of voters were in favor of a referendum for Nassau County to issue up to \$30M in general obligation bonds for the Nassau County CLAM program. Nassau county will continue to seek funding for the several acres of lands they intend to acquire through grants and county and regional resiliency programs.

#### Authority to Implement:

The authority to implement various land acquisition and management strategies is a function of local government partnerships and resources. Partnerships with other entities and individual landowners are key to successful programs. A key program to leverage local land acquisition and land management activities is the Rural and Family Lands Protection Program (RFLPP) is an agricultural land preservation program designed to protect important agricultural lands through the acquisition of permanent agricultural land conservation easements. The program is written in Section 570.70, Florida Statutes, and Chapter 5I-7, Florida Administrative Code (F.A.C.). A Technical Review Team reviews projects, ranking them through a formal process by the Rural and Family Lands Protection Program Selection Committee and approved by the Governor and Cabinet.



# LOW-INCOME AND DISADVANTAGED COMMUNITY (LIDAC) BENEFIT ANALYSIS

CLEAN AIR NORTHEAST FLORIDA REGIONAL PRIORITY CLIMATE ACTION PLAN

# IV. LOW-INCOME AND DISADVANTAGED COMMUNITY (LIDAC) BENEFIT ANALYSIS

Many LIDACs in NEFL will benefit from the implementation of the priority measures included in this PCAP. The measures will reduce public health inequities, increase economic opportunities through clean energy jobs, and improve the natural environment and community resilience. The goals of the Justice40 Initiative set forth in Executive Order 14008, which aims to deliver 40% of the overall benefits of relevant federal investments to disadvantaged communities, will also be advanced through the measures. It is vital to remember that by addressing social, environmental, and economic acute and chronic stressors in a region, the large cost of climate adaptation and mitigation efforts is decreased. This section covers the methodology used to determine LIDACs in the region, which locations have certain burdens, and how the proposed priority measures will positively impact the LIDACs and reduce certain burdens.

# Methodology

For the purposes of the CPRG, LIDACs are defined as any community that is identified as disadvantaged by the Council on Environmental Quality Climate and Economic Justice Screening Tool (CEJST)<sup>54</sup> and/or EPA's Environmental Justice EJScreen<sup>55</sup> tool. The CEJST is a geospatial mapping tool that uses an interactive map and datasets to identify communities that are overburdened and underserved. These communities are marginalized by society, underserved by infrastructure and other basic services, and overburdened by pollution. CEJST is based on the third smallest census track (1,200-8,000 people) and uses indicators of burden in eight categories: climate change, energy, health, housing, legacy pollution, transportation, water and wastewater, and workforce development. Census tract boundaries for statistical areas are determined by the U.S. Census Bureau once every ten years. As of the writing of this plan, CEJST utilized the census tract boundaries from 2010. A community is highlighted as disadvantaged on the CEJST map if it is in a census tract that is (1) at or above the threshold (usually 90th percentile) for one or more environmental, climate, or other burdens and (2) at or above the threshold for an associated socioeconomic burden (usually income at or above 65th percentile). The EJScreen is an environmental justice mapping and screening tool that provides nationally consistent datasets and an approach for combining environmental and demographic socioeconomic indicators. It uses the census block group level and can layer data such as pollution sources and level of education that can afford an even deeper understanding of a community. Both tools were used to identify and understand communities that are overburdened and underserved in NEFL so they can be prioritized in development and implementation opportunities. The categories, type of burden, thresholds, and descriptions are provided in Appendix D.



55. <u>https://ejscreen.epa.gov/mapper</u>

<sup>54.</sup> https://screeningtool.geoplatform.gov/en/#9/30.2857/-81.7015

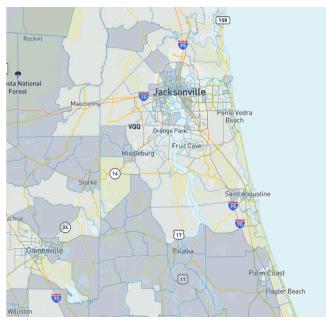
# **IdentiFication of LIDACs**

With both tools, the NEFL MSA identified a total of 91 LIDACs totaling 426,578 in population or 25% of NEFL MSA population, including:

- 69 in Duval County (340,246 people or 20% of NEFL MSA population),
- 7 in Clay County (34,191 or 2%),
- 1 in Baker (8,181 or 0.5%),
- 1 in Nassau (6,661 people or 0.4%),
- 3 in St. Johns (16,021 people or 1%), and
- 10 in the City of Palm Coast (44,088 people or 3%).

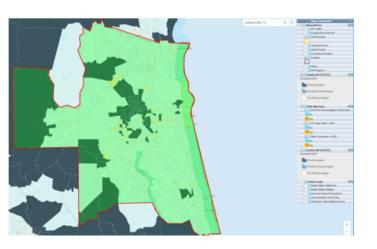
# FIGURE 4

Climate and Economic Justice Mapping of NEFL<sup>56</sup>



#### **FIGURE 5**

Baker, Nassau, Duval, Clay, and St. Johns Counties LIDAC Communities (in Dark Green and Yellow)  $^{\rm 57}$ 



#### **FIGURE 6**

City of Palm Coast LIDAC Communities (in Dark Green and Yellow)  $^{\scriptscriptstyle 58}$ 



- 57. <u>https://ejscreen.epa.gov/mapper/</u>
- 58. <u>https://ejscreen.epa.gov/mapper/</u>

<sup>56.</sup> https://screeningtool.geoplatform.gov/en/#9/30.2857/-81.7015

# Table 15 Number of People Affected with a Disadvantaged Burden Addressed by a Proposed Measure(s) $^{\rm 59}$

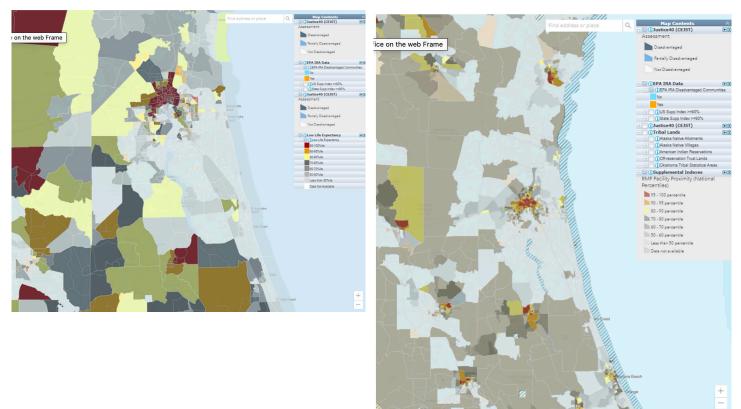
|  | d C  | 9                            | Эег   |   |
|--|--|------------------------------|---|---|
| Burden   | Number of LIDACs<br>/ Frequency of<br>Burden (90th and<br>Low Income/HS) | Number of People<br>Affected | Location / Number<br>of Census Tracts<br>Impacted                             | Proposed<br>Measure(s)  |
| Low Life Expectancy                                      | 41   | 163,236                      | 39 Duval; 1<br>Palm Coast; 1<br>Clay  | All proposed measures   |
| Proximity to Risk<br>Management Plan (RMP)<br>facilities | 40   | 150,280                      | 39 Duval; 1 St.<br>Johns  | Potential Landfill Gas Recovery   |
| Projected Fire Risk                                      | 20   | 132,019                      | 4 Clay, 11 Duval,<br>5 Palm Coast   | All proposed measures will<br>potentially indirectly help slow<br>down and reduce the severity of<br>acute weather events   |
| Heart Disease  | 28   | 109,445                      | 23 Duval; 3<br>Palm Coast;<br>1 Clay; 1 St.<br>Johns                          | Bike/Pedestrian programs; Mode<br>shift   |
| Diabetes   | 29   | 106,400                      | 28 Duval; 1<br>Palm Coast   | Bike/Pedestrian programs; Mode<br>shift   |
| Low median income  | 26   | 98,578                       | 26 Duval  | Potentially energy efficiency<br>and solar for buildings; Bike/<br>Pedestrian programs; Mass<br>transit expansion; Mode shift;<br>Workforce development tied to<br>measure implementation     |
| Asthma   | 23   | 82,706                       | 23 Duval  | Increase in renewable energy for<br>electrical grid; Energy efficiency<br>and solar for buildings; EV fleet<br>transition; Bike/Pedestrian<br>programs; Mass transit<br>expansion; Mode shift |
| Travel Barriers  | 12   | 68,700                       | 1 Baker, 6<br>Clay, 1 Duval, 1<br>Nassau, 2 Palm<br>Coast, and 1 St.<br>Johns | EV fleet transition; Bike/<br>Pedestrian programs; Mass<br>transit expansion; Mode shift  |
| Unemployment   | 18   | 66,962                       | 18 Duval  | Workforce development and<br>training tied to measure<br>implementation   |
| Poverty  | 18   | 63,163                       | 1 Clay, 17 Duval  | Potentially energy efficiency<br>and solar for buildings; Bike/<br>Pedestrian programs; Mass<br>transit expansion; Mode shift;<br>Workforce development tied to<br>measure implementation     |

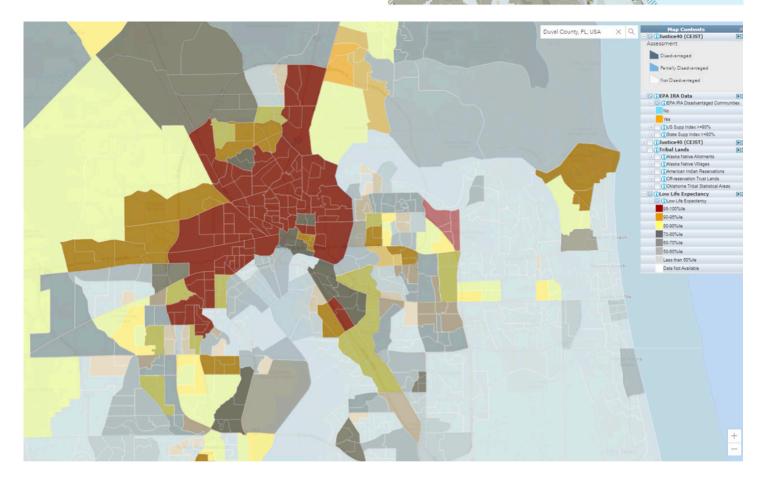
| Housing cost/burden                                    | 17 | 61,149 | 16 Duval, 1 St.<br>Johns                 | Potentially energy efficiency and solar for buildings  |
|--|----|--------|--|--|
| Projected Flood Risk                                   | 10 | 50,026 | 3 Duval, 5 Palm<br>Coast, 2 St.<br>Johns | All proposed will potentially<br>indirectly will indirectly help slow<br>down and reduce the severity of<br>acute weather events             |
| Energy Burden/Costs                                    | 15 | 49,784 | 15 Duval                                 | Energy efficiency and solar for<br>buildings   |
| Historic Underinvestment                               | 14 | 46,479 | 14 Duval                                 | Energy efficiency and solar for<br>buildings; EV fleet transition;<br>Bike/Pedestrian programs; Mass<br>transit expansion; Mode shift        |
| Expected Building Loss                                 | 3  | 38,062 | 2 Flagler, 1 St.<br>Johns                | All proposed measures will<br>potentially indirectly will<br>indirectly help slow down and<br>reduce the severity of acute<br>weather events |
| Traffic Proximity and<br>Volume                        | 12 | 37,826 | 12 Duval                                 | EV fleet transition; Bike/<br>Pedestrian programs; Mass<br>transit expansion; Mode shift   |
| Diesel PM Exposure                                     | 10 | 36,594 | 10 Duval                                 | EV fleet transition; Bike/<br>Pedestrian programs; Mass<br>transit expansion; Mode shift   |
| Wastewater discharge                                   | 10 | 34,409 | 10 Duval                                 | Wastewater treatment efficiency<br>upgrades will slow down<br>infiltration and discharge   |
| Education less than a<br>high school diploma<br>+25 yo | 7  | 20,222 | 7 Duval                                  | Workforce development and<br>training tied to measure<br>implementation  |
| Linguistic isolation                                   | 3  | 18,646 | 3 Duval                                  | Intentional outreach with<br>sensitivity to linguistic needs   |
| Expected Population Loss                               | 4  | 16,001 | 4 Duval                                  | All proposed measures will<br>potentially indirectly will<br>indirectly help slow down and<br>reduce the severity of acute<br>weather events |

59. Data on burdens downloaded and analyzed from Climate and Economic Justice Screening Tool (CEJST) - https://screeningtool. geoplatform.gov/en/downloads. Maps showing locations of LIDACs and burdens are from the EPA EJ Screening mapping tool ejscreen. epa.gov/mapper/. Complete list of burdens by number of people affected can be found in Appendix XXX

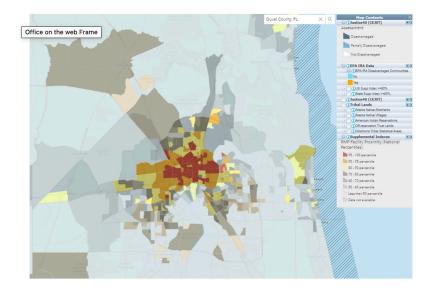
#### Maps of Top Five Most Populous LIDACs with a Specific Disadvantaged Burden

EPA EJ Screen NEFL MSA Map and Duval County Map of Low Life Expectancy Burden (39 LIDACs in Duval, 1 Clay, 1 Palm Coast – affecting 163,236 people)

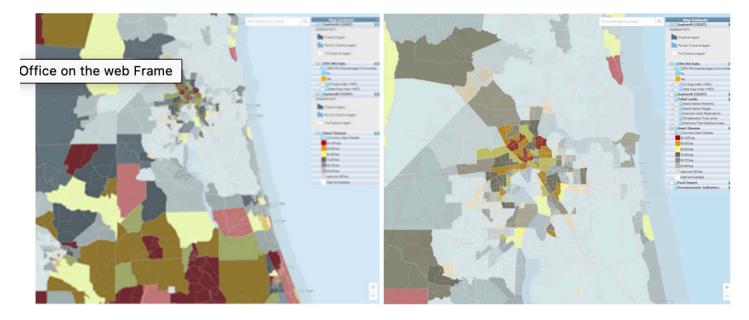




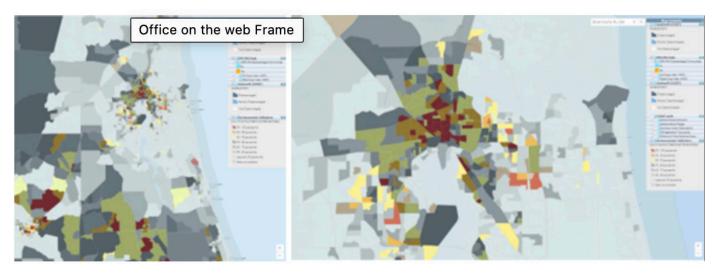
EPA EJ Screen NEFL MSA Map and Duval County Map of Proximity to Risk Management Plan (RMP) Facilities Burden (39 LIDACs in Duval; 1 St. Johns – affecting 150,280 people)



EPA EJScreen NEFL and Duval County Maps of Heart Disease Burden (23 LIDACs in Duval; 3 Palm Coast; 1 Clay; 1 St. Johns – affecting 109,445 people)



# EPA EJScreen NEFL and Duval County Maps of Median Income Burden (26 LIDACs in Duval – affecting 98,578 people)



EPA EJScreen NEFL and Duval County Maps of Asthma Burden (23 LIDACs in Duval – affecting 82,706 people)



# **Climate Impacts and Risks**

Like many regions, Northeast Florida is facing various climate impacts and risks that are expected to intensify with ongoing climate change. In 2023, the region benefited from studies completed for the City of Jacksonville's first resilience plan that covers the next 50 years. Below is a quick chart from the plan outlining the region's acute shocks and chronic stressors, as well as four maps from the EPA EJ Screen Mapping Tool demonstrating the four climate risks it measures – flooding, wildfire, 100-year floodplain, and sea level rise – and where these risks overlay with our regions LIDAC communities:

## FIGURE 7

Duval County Acute Shocks and Chronic Stresses

# SHOCKS & STRESSES CONSIDERED

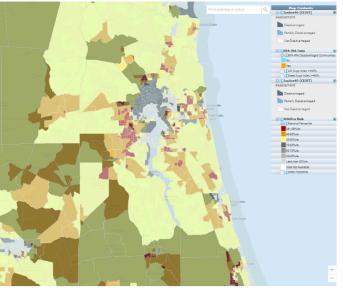
#### 

Extreme Rainfall Events Extreme Heat Events Hurricanes / Tropical Cyclones Winter Storms / Extreme Cold Events Infrastructure Failure or Disruption Energy Insecurity / Blackouts High Winds Wildfires Infectious Diseases Cyber Attack Hazardous Materials Incidents

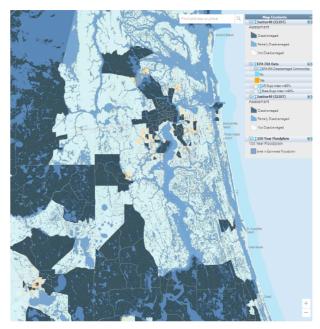
# 

Sea Level Rise **High Tide Flooding Heavy Rainfall Coastal Erosion** Saltwater Intrusion **Groundwater Threats Urban Heat Island Effect** Drought Aging Infrastructure **Economic Downturns** Povertv Social Inequality Lack of Reliable Transportation Lack of Safe and Affordable Housing Food Insecurity & Supply Chain Disruptions Lack of Healthcare Access **Chronic and Infectious Diseases** 



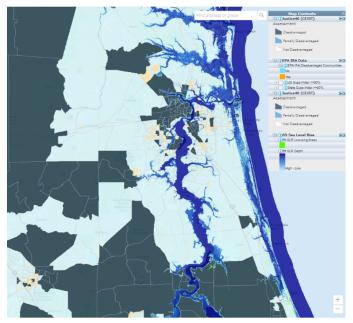


Flood Risk



100-Year Floodplain

Wildfire Risk



Sea Level Rise (6<sup>th</sup> Feet; NOAA)

# IMPACT OF PCAP IMPLEMENTATION ON LIDACS WITH ANTICIPATED BENEFITS AND CHALLENGES

Table 15LIDACs anticipated to be affected by implementing each priority measure included inthis PCAP.

The anticipated benefits or potential disbenefits associated with measure implementation are also summarized in this section.

# ELECTRICAL GRID MEASURE: INCREASE CLEAN ENERGY

Measure Description: Local utilities to reduce GHG emissions by increasing their percentage of clean energy

**Communities Impacted by this Measure:** While it is unlikely that a utility will place one of its planned large solar farms directly within a LIDAC in NEFL MSA for direct benefits, the indirect benefits listed below will help many in the MSA.

#### LIDAC Census Tracts Impacted: NEFL MSA Wide

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600. 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011901, 12031012000, 12031012200, 12031012300, 12031012500, 12031012100, 12031012601. 12031013200, 12031013300, 12031013402, 12031012602, 12031012704, 12031012900, 12031013502, 12031013800, 12031013902. 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12035060104, 12035060204, 12035060206, 12035060207, 12035060208, 12035060209, 12035060210, 12035060212, 12035060213, 12035060214, 12109020300, 12109021003, 12109021101

| BENEFITS  | POTENTIAL CHALLENGES/DISBENEFITS          |  |  |  |
|---|---|--|--|--|
| Reduced energy costs  | Upfront costs                             |  |  |  |
| Improved health outcomes  | Citing and acquiring appropriate location |  |  |  |
| Increased job opportunities                                     | Distribution infrastructure               |  |  |  |
| Improved energy independence and resilience                     |   |  |  |  |
| NAVIGATING/MITIGATING THE CHALLENGES                            |   |  |  |  |
| Customer Incentive Programs to increase demand for clean energy |   |  |  |  |
| Community Solar Projects located in LIDACs                      |   |  |  |  |
| Policy Support  |   |  |  |  |
| Infrastructure Improvements                                     |   |  |  |  |
| Education and Outreach  |   |  |  |  |
| Targeted Job Training   |   |  |  |  |

# BUILDING MEASURE: RESIDENTIAL ENERGY AUDIT and EFFICIENCY TOOLKIT

**Measure Description:** Host energy efficient and energy audit toolkits at public libraries for the public to check out as well as direct energy saving technology kits to pass out that include LED lightbulbs, smart power strips, and educational materials and resources (e.g., times and locations of workshops) in multiple languages.

**Communities Impacted by this Measure:** All LIDAC communities throughout the NEFL MSA will have access to these toolkits. It is vital to make tools and "how to" information freely and easily available to those who cannot afford to pay for a professional audit. The direct and indirect benefits of this measure are listed below.

LIDAC Census Tracts Impacted: NEFL MSA Wide wherever a library is located

| 12003040201, | 12019030102,    | 12019030103,    | 12019030104,   | 12019030400,   | 12019031104,    | 12019031105, |
|--------------|-----------------|-----------------|----------------|----------------|-----------------|--------------|
| 12019031106, | 12031000100,    | 12031000200,    | 12031000300,   | 12031000600,   | 12031001000,    | 12031001100, |
| 12031001200, | 12031001300,    | 12031001400,    | 12031001500,   | 12031001600,   | 12031002501,    | 12031002502, |
| 12031002600, | 12031002701,    | 12031002702,    | 12031002801,   | 12031002802,   | 12031002901,    | 12031002902, |
| 12031010304, | 12031010401,    | 12031010402,    | 12031010500,   | 12031010700,   | 12031010800,    | 12031010900, |
| 12031011000, | 12031011100,    | 12031011200,    | 12031011300,   | 12031011400,   | 12031011500,    | 12031011600, |
| 12031011700, | 12031011800,    | 12031011901,    | 12031012000,   | 12031012100,   | 12031012200,    | 12031012300, |
| 12031012500, | 12031012601,    | 12031012602,    | 12031012704,   | 12031012900,   | 12031013200,    | 12031013300, |
| 12031013402, | 12031013502,    | 12031013800,    | 12031013902,   | 12031013904,   | 12031014311,    | 12031015200, |
| 12031015300, | 12031015400,    | 12031015502,    | 12031015700,   | 12031015925,   | 12031016000,    | 12031016100, |
| 12031016200, | 12031016300,    | 12031016601,    | 12031016726,   | 12031016727,   | 12031017200,    | 12031017400, |
| 12089050503, | 12035060104,    | 12035060204,    | 12035060206,   | 12035060207,   | 12035060208,    | 12035060209, |
| 12035060210, | 12035060212, 12 | 2035060213, 120 | 35060214, 1210 | 9020300, 12109 | 021003, 1210902 | 21           |

| BENEFITS  | POTENTIAL CHALLENGES/DISBENEFITS                 |  |  |  |
|---|--|--|--|--|
| Increased control and empowerment                             | Lack of accessibility and equitable distribution |  |  |  |
| Reduced electricity bills                                     | Limited scope and impact                         |  |  |  |
| Improved comfort and health                                   | Lack of awareness and direct promotion           |  |  |  |
| Reduced environmental impact                                  | Limited internet access and digital divide       |  |  |  |
| Increased community engagement, knowledge and trust           |  |  |  |  |
| NAVIGATING/MITIGAT  | ING THE CHALLENGES                               |  |  |  |
| Culturally sensitive ed                                       | ducation and outreach                            |  |  |  |
| Use multimedia and diverse tools and resources                |  |  |  |  |
| Share success stories and pictures from within each community |  |  |  |  |
| Combine with incentives and financial assistance programs     |  |  |  |  |

# BUILDING MEASURE: HIGH PERFORMING CENTERS TO BUILD COMMUNITY RESILIENCY

**Measure Description:** Retrofit community assets such as schools, community centers, critical facilities, and libraries that serve disadvantaged residents to be energy efficient and install solar with backup batteries where feasible. These facilities will ensure vulnerable residents have access to safe spaces with services following events such as hurricanes, tornados, and electric grid failures. If designed well, high performing centers to build community resiliency can equitably enhance community resilience while reducing GHG emissions and improving local quality of life. They are a smart local investment with the potential to reduce the burden on local emergency response teams, improve access to health improvement initiatives, foster greater community cohesion, and increase the effectiveness of community-centered institutions and programs." (Source: USDN website)

**Communities Impacted by this Measure:** The community centers will be sited and managed within LIDAC communities in NEFL MSA. The direct and indirect benefits of this measure are listed below.

LIDAC Census Tracts Impacted: NEFL MSA Wide and wherever the identified community centers are located

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011500, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013502, 12031013502, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015300, 12031015502, 12031015700, 12031015925, 12031016000, 1203101600, 12031016000, 12031015200, 12031015502, 12031015700, 12031015925, 12031016000, 12031017400, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12035060104, 12035060204, 12035060206, 12035060207, 12035060208, 12035060209, 12035060210, 12035060214, 12109021003, 12109

| BENEFITS  | POTENTIAL CHALLENGES/DISBENEFITS       |  |  |  |  |
|---|--|--|--|--|--|
| Enhanced community resilience and social cohesion                                       | Initial siting, costs, and maintenance |  |  |  |  |
| Reduced energy bills for the municipality   | Complex and/or multiple partnerships   |  |  |  |  |
| Improved air quality and climate mitigation   | Ongoing usefulness to the comm         |  |  |  |  |
| Increased community empowerment and trust   |  |  |  |  |  |
| Increased services and support of the community   |  |  |  |  |  |
| NAVIGATING/MITIGATING THE CHALLENGES  |  |  |  |  |  |
| Foster ongoing intentional community input of facility features, services, and programs |  |  |  |  |  |

Verify accessibility and cultural sensitivity of facility, services, and programs

Create a long-term maintenance and sustainable funding source plan

## **BUILDING MEASURE: COMMERCIAL SOLAR**

Measure Description: Place commercial large-scale solar in strategic locations throughout the NEFL MSA.

**Communities Impacted by this Measure:** Where possible the large-scale solar projects will be placed in or near a LIDAC community and where significant energy savings and GHG emission reductions can be achieved. The direct and indirect benefits of this measure are listed below.

#### LIDAC Census Tracts Impacted: NEFL MSA Wide and wherever a library is located

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 120310112100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031015300, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015300, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031015502, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12035060104, 12035060204, 12035060206, 12035060207, 12035060208, 12035060209, 12035060210, 12035060212, 12035060214, 12109021003, 12109021003, 12109021101

| <u>BENEFITS</u>   | POTENTIAL CHALLENGES/DISBENEFITS                           |  |
|---|--|--|
| Reduced energy costs  | Limited economic benefit sharing                           |  |
| Improved community resilience   | Concerns about land use impact and negative aesthetics     |  |
| Increased climate risk mitigation   | Possible long-term gentrification and displacement impacts |  |
| Increased economic development and job creation   | Concerns about equitable access to community               |  |
| Enhanced skills development   |  |  |
| NAVIGATING/MITIGATING THE CHALLENGES  |  |  |
| Foster ongoing intentional community input of facility features, services, and programs |  |  |
| Verify accessibility and cultural sensitivity of facility, services, and programs       |  |  |
| Create a long-term maintenance and sustainable funding source plan                      |  |  |

## BUILDING MEASURE: MUNICIPAL BUILT ENVIRONMENT DECARBONIZATION

**Measure Description:** Reduce the embodied carbon in vertical and horizontal built environment in municipalities.

**Communities Impacted by this Measure:** Locating cool roofs, pavement, green infrastructure along with decarbonizing buildings in LIDAC communities throughout the City of Jacksonville, the City of Atlantic Beach and the City of St. Augustine will reduce urban heat impacts. The direct and indirect benefits of this measure are listed below.

**LIDAC Census Tracts Impacted:** LIDACs in the City of Jacksonville, the City of Atlantic Beach and the City of St. Augustine

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800,

12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12109021003, 12109020300

| BENEFITS   | POTENTIAL CHALLENGES/DISBENEFITS                            |  |
|--|---|--|
| Lower energy bills can free up resources for essential services  | Limited economic benefit sharing                            |  |
| Improved public health in air quality and ventilation  | Increased building costs                                    |  |
| Increased local job creation and training opportunities  | Ongoing maintenance and technology upgrade financial burden |  |
| Leadership by example encourages broader adoption of sustainable practices by businesses and residents     | Limited access to new jobs and skills training              |  |
| Increased climate risk mitigation  | Disruption during implementation of horizontal project      |  |
| NAVIGATING/MITIGATING THE CHALLENGES   |   |  |
| Involve residents in the planning and decision-making process to ensure their needs and concerns are heard |   |  |

Involve residents in the planning and decision-making process to ensure their needs and concerns are heard and addressed

Provide clear information on the time and length of disruption to residents and businesses by the project

If the project is community solar, prioritize high energy burden residents with targeted, sensitive outreach

Prioritize hiring and training residents and small businesses from disadvantaged communities for retrofitting and maintenance jobs

Clearly communicate project goals, benefits, and potential impacts to the community throughout the process

Consider expanding public transportation access to connect residents to municipal buildings

## TRANSPORTATION MEASURE: NORTH FLORIDA TPO'S CLEAN FUELS INITIATIVE

Measure Description: Examine the operational and economic feasibility of transitioning fleets of various **stakeholders** in three counties to clean fuels and increase adoption of cleaner alternative fuels than traditional fossil fuels.

**Communities Impacted by this Measure:** Where possible, we will partner with stakeholders in fleets located in LIDAC communities. The direct and indirect benefits of this measure are listed below.

LIDAC Census Tracts Impacted: LIDACs in Duval, Nassau, and St. Johns counties

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031017200, 12031017200, 12031017400, 12089050503, 12109020300, 12109021003, 12109021101

| POTENTIAL CHALLENGES/DISBENEFITS                            |
|---|
| Limited economic benefit sharing                            |
| Increased building costs                                    |
| Ongoing maintenance and technology upgrade financial burden |
| Limited access to new jobs and skills training              |
| Disruption during implementation of horizontal project      |
|   |

#### NAVIGATING/MITIGATING THE CHALLENGES

Involve residents in the planning and decision-making process to ensure their needs and concerns are heard and addressed

Provide clear information on the time and length of disruption to residents and businesses by the project

If the project is community solar, prioritize high energy burden residents with targeted, sensitive outreach

Prioritize hiring and training residents and small businesses from disadvantaged communities for retrofitting and maintenance jobs

## TRANSPORTATION MEASURE: MASS TRANSIT EXPANSION AND MOBILITY HUB

**Measure Description:** Develop intercounty mass transit with a regional rail network and expanded bus express service. This will address the transportation GHG emissions from work commuter traffic from other counties into Duval County.

Communities Impacted by this Measure: Where possible, JTA will work with key stakeholders and local communities to be serviced by the mass transit expansion to design direct benefits for LIDAC communities. The direct and indirect benefits of this measure are listed below.

LIDAC Census Tracts Impacted: LIDACs in Baker, Clay, Duval, Nassau, and St. Johns counties

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031011200, 12031012300, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015300, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12109020300, 12109021003, 12109021101

| BENEFITS  | POTENTIAL CHALLENGES/DISBENEFITS  |  |
|---|---|--|
| Improved air quality and public health  | Upfront and ongoing costs   |  |
| Reduced climate change impacts and risks  | Probable disruption and inconvenience during implementation   |  |
| Increased job creation, job opportunities, and economic development   | Limited impact on employment for local residents if<br>they are unaware of opportunities, lack skills, or face<br>barriers to entry   |  |
| Reduced transportation costs  | Concerns about safety and security  |  |
| Increased access to opportunities and quality of life   | Concerns about accessibility and equitability (e.g.,<br>design for those with disabilities, limited mobility,<br>those lacking language proficiency, or other special<br>needs) |  |
| Enhanced public spaces  | Potential disruption to local cultures and social fabrics   |  |
| Enhanced community connections  | Potential gentrification and displacement impacts   |  |
| Potential revitalization and increased community development  | Probable maintenance and operational challenges   |  |
| NAVIGATING/MITIGATING THE CHALLENGES  |   |  |
| Clearly communicate project goals, benefits, potential impacts, and community engagement opportunities throughout the process |   |  |
| Provide targeted training and job placement assistance for workers in LIDACs to ensure they benefit from the expansion        |   |  |

Continue to work on adding amenities to the transit experience (e.g., free Wi-Fi) to encourage people not to take their car

Create a sustainable, long-term funding plan

## TRANSPORTATION MEASURE: COJ BICYCLE-PEDESTRIAN PROGRAMS

**Measure Description:** Increase active transportation mode share by expanding a safe and connected bicycle facilities network, expand/enhance a trail network that is comfortable, safe, and appropriate for all ages/ abilities, and create an E-bike voucher program to provide modal options for underserved communities, offer residents and visitors alike a lower-emissions modal option for commuting, and construct shower/ locker facilities for government offices, providing staff with facilities to support an elevation in active transportation.

**Communities Impacted by this Measure:** The majority of these programs will be located and focused on directly serving the 61 LIDACS in the City of Jacksonville. The direct and indirect benefits of this measure are listed below.

LIDAC Census Tracts Impacted: LIDACs in the City of Jacksonville

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400

| BENEFITS   | POTENTIAL CHALLENGES/DISBENEFITS                                     |
|--|--|
| Increased access and mobility to jobs and those who cannot drive | Concerns about accessibility to paths and trails                     |
| Improved public health through more physical activity            | Initial costs and construction disruptions                           |
| Reduced transportation costs                                     | E-bike affordability and equitable access to charging infrastructure |
| Improved air quality and other environmental benefits            | E-bike safety for riders and pedestrians                             |
| Enhanced community vitality, safety, and cohesion                | Shower/locker facility utilization and costs                         |
| Enhanced public spaces   | Potential disruption to local cultures and social fabrics            |
| Enhanced community connections                                   | Potential gentrification and displacement impacts                    |

#### **NAVIGATING/MITIGATING THE CHALLENGES**

Actively involve residents in planning and decision-making to ensure their needs and concerns are heard and addressed

Design all elements with accessibility in mind, ensuring everyone can safely and comfortably use the new infrastructure

Consider bike repair stations

Prioritize safety through dedicated enforcement, lighting, and educational campaigns

## TRANSPORTATION MEASURE: FLEET TRANSITION FOR EVS

**Measure Description:** Decrease emissions generated by the transportation sector, improve the region's air quality, and serve as a positive example for other entities to follow by transitioning public fleets to electric.

**Communities Impacted by this Measure:** The city EV fleet transitions will directly benefit their LIDACs with less air pollution. The DCPS plans to place their EV buses directly within school routes hoping to directly reduce asthma rates. Additional direct and indirect benefits of this measure are listed below.

**LIDAC Census Tracts Impacted:** LIDACs in Nassau County, the City of St. Augustine, the City of Jacksonville, the City of Atlantic Beach, Duval County Public School District

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 120310110900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12109021003, 12109020300

| BENEFITS   | POTENTIAL CHALLENGES/DISBENEFITS                              |
|--|---|
| Improved air quality, respiratory health, and healthcare costs | Limited infrastructure  |
| Reduced climate change risk                                    | Potential job displacement in traditional fossil fuel sectors |
| Increased job creation and economic development                | Anti-EV sentiment   |
| Reduced noise pollution  |   |
| Reduced operating costs  |   |
| Potential increased resilience with two-way charging           |   |
|  |   |

#### NAVIGATING/MITIGATING THE CHALLENGES

Consider the long-term costs and accessibility of maintenance and repairs for EVs to ensure affordability

Track the transition's impact with data and monitoring on disadvantaged communities and city employees and budget, including air quality, health outcomes, job creation, and economic savings, to adapt the approach as needed

### INDUSTRY MEASURE: REDUCE MARITIME SECTOR EMISSIONS

**Measure Description:** Reduce emissions from the maritime sector, including Jones Act ocean-going vessels, cruise ships, and commercial harbor craft including reducing medium- and heavy-duty truck vehicle miles traveled, traffic congestion, idling, and queueing.

**Communities Impacted by this Measure:** The Jacksonville Port Authority (JAXPORT) headquarters, refrigerated services, and a marine terminal are in two LIDAC communities with many trucks and marine vessels going by on a daily basis. The other locations run by JAXPORT impact most of Duval County and some of Nassau County.

**LIDAC Census Tracts Impacted:** LIDACs in Duval and Nassau Counties including two LIDACs directly impacted in downtown Jacksonville

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015300, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503

| <u>BENEFITS</u>   | POTENTIAL CHALLENGES/DISBENEFITS               |  |  |  |
|---|--|--|--|--|
| Improved local and regional air quality and health outcomes                                     | Upfront costs in conversion and infrastructure |  |  |  |
| Increased climate change mitigation   | Potential job displacement                     |  |  |  |
| Enhanced economic opportunities with job creation, upskilling, innovation, and new technologies | Long-term financial investment                 |  |  |  |
| Reduced noise pollution   | State policies                                 |  |  |  |
| NAVIGATING/MITIGAT  | ING THE CHALLENGES                             |  |  |  |
| Foster continual, transparent, and diverse multi-stakeholder engagement                         |  |  |  |  |
| Consider continual reinvestment in workforce development and new technologies                   |  |  |  |  |

### AFOLU MEASURE: PRESERVE AND EXPAND FOREST

**Measure Description:** Nassau County would like to acquire 100,000+ acres of land to preserve for wildlife and recreation.

**Communities Impacted by this Measure:** This measure will directly benefit the one LIDAC in Nassau County while indirectly benefiting the whole NEFL MSA.

LIDAC Census Tracts Impacted: LIDAC in Nassau County (12089050503)

| BENEFITS  | POTENTIAL CHALLENGES/DISBENEFITS                   |  |  |  |
|---|--|--|--|--|
| Expanded environmental protection   | Potential maintenance cost burden                  |  |  |  |
| Enhanced flood mitigation   | Potential loss of cultural significance            |  |  |  |
| Improved public health  | Potential livelihood loss (other uses of the land) |  |  |  |
| Increased recreational opportunities  | Concerns about limited and equitable access        |  |  |  |
| New educational opportunities for outdoor classroom work  |  |  |  |  |
| Potential economic development through ecotourism and sustainable forestry practices                                  |  |  |  |  |
| NAVIGATING/MITIGAT  | ING THE CHALLENGES                                 |  |  |  |
| Actively involve residents in identifying needs, concerns   | s, and potential benefits of the project           |  |  |  |
| Conduct thorough assessments to understand the cultural significance of the land for potentially impacted communities |  |  |  |  |
| Ensure accessible transportation options and programs exist to connect disadvantaged communities                      |  |  |  |  |
| Regularly monitor the project's impact on the communi-  | ty and adapt the approach as needed                |  |  |  |

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### WASTE and MATERIALS MANAGEMENT MEASURE: WASTEWATER TREATMENT EFFICIENCY UPGRADES

**Measure Description:** The City of Palm Coast wants to implement pipe and maintenance hole lining to mitigate the impact of stormwater inflow and infiltration. The project's primary goal is to enhance energy efficiency by minimizing stormwater infiltration during heavy rainfall events.

**Communities Impacted by this Measure:** All the LIDACs in the City of Palm Coast will directly benefit from this measure. Additional direct and indirect benefits are listed below.

LIDAC Census Tracts Impacted: LIDACs in the City of Palm Coast

12035060104, 12035060204, 12035060206, 12035060207, 12035060208, 12035060209, 12035060210, 12035060212, 12035060213, 12035060214

| BENEFITS   | POTENTIAL CHALLENGES/DISBENEFITS                   |  |  |  |  |
|--|--|--|--|--|--|
| Reduced flooding and property damage   | Inequitable benefits if LIDACs are not prioritized |  |  |  |  |
| Improved public health   | Limited scope does not include upstream issues     |  |  |  |  |
| Enhanced quality of life   | Upfront and ongoing maintenance costs              |  |  |  |  |
| Improved infrastructure  | Concerns about disruption and inconvenience        |  |  |  |  |
| Potential job creation   | Concerns about gentrification in the long-term     |  |  |  |  |
| Probable municipal savings that can be used elsewhere  |  |  |  |  |  |
| NAVIGATING/MITIGATING THE CHALLENGES   |  |  |  |  |  |
| Prioritize vulnerable communities  |  |  |  |  |  |
| Implement a comprehensive plan that addresses unstream issues, integrates green infrastructure solutions |  |  |  |  |  |

Implement a comprehensive plan that addresses upstream issues, integrates green infrastructure solutions like infiltration with traditional drainage improvements, and considers long-term climate change impacts

Clearly communicate project goals, benefits, and potential impacts to the community throughout the process. Address concerns and build trust through ongoing engagement

Track progress and verify city achieved energy efficiency benefits

### WASTE and MATERIALS MANAGEMENT MEASURE: COMPOSTING and WASTE DIVERSION

**Measure Description:** Reduce methane emissions through composting and waste diversion.

**Communities Impacted by this Measure:** All the LIDACs in the City of Jacksonville, the City of Atlantic Beach, and the City of St. Augustine will directly benefit from this measure. Additional direct and indirect benefits are listed below.

**LIDAC Census Tracts Impacted:** LIDACs in the City of Jacksonville, the City of Atlantic Beach, and the City of St. Augustine

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12109021003, 12109020300

| BENEFITS  | POTENTIAL CHALLENGES/DISBENEFITS                   |
|---|--|
| Reduced flooding and property damage                  | Inequitable benefits if LIDACs are not prioritized |
| Improved public health                                | Limited scope does not include upstream issues     |
| Enhanced quality of life                              | Upfront and ongoing maintenance costs              |
| Improved infrastructure                               | Concerns about disruption and inconvenience        |
| Potential job creation                                | Concerns about gentrification in the long-term     |
| Probable municipal savings that can be used elsewhere |  |

### WASTE and MATERIALS MANAGEMENT MEASURE: LANDFILL GAS RECOVERY and CONVERSION

**Measure Description:** Collect Landfill Gas (LFG) and reuse it in generators for power or purification and install a geosynthetic liner on top of the closed areas of the landfill to prevent gas emissions.

**Communities Impacted by this Measure:** All the LIDACs in the City of Jacksonville will directly benefit from this measure. Additional direct and indirect benefits are listed below.

**LIDAC Census Tracts Impacted:** LIDACs in the City of Jacksonville, the City of Atlantic Beach, and the City of St. Augustine lay downwind of a landfill.

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 12031010500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015300, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400

| BENEFITS  | POTENTIAL CHALLENGES/DISBENEFITS                    |
|---|---|
| Reduced greenhouse gas emissions                | Concerns about ongoing environmental justice issues |
| Improved air quality and health outcomes        | Concerns about unintended consequences              |
| Renewable energy source                         | Lack of trust in institutions                       |
| Increased job creation and economic development | Transparency and trust                              |
| Potential revenue generation                    | Concerns about long-term maintenance and costs      |

### NAVIGATING/MITIGATING THE CHALLENGES

Conduct a thorough environmental justice assessment to identify existing disparities and ensure the project does not exacerbate them

Prioritize hiring and training residents from the community for project jobs, creating local employment opportunities

Ensure a portion of the revenue generated from selling RNG is directed back to the community for investments in local infrastructure, social programs, or environmental initiatives

Develop a sustainable funding model for ongoing maintenance and ensure independent monitoring of environmental impacts and community health outcomes

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# **COORDINATION AND OUTREACH**

CLEAN AIR NORTHEAST FLORIDA REGIONAL PRIORITY CLIMATE ACTION PLAN

### V. COORDINATION AND OUTREACH

The Northeast Florida MSA conducted extensive intergovernmental coordination and outreach over six months to develop this PCAP. This section describes the framework NEFL MSA used to support robust and meaningful engagement strategies, ensure comprehensive stakeholder representation, and overcome obstacles to engagement, including linguistic, cultural, institutional, geographic, and other barriers.



FIGURE 8 Kids Hope Alliance Community Engagement event on 2/22/2024.

### Identification of Stakeholders

NEFL MSA identified stakeholders: representatives of the entities, groups, and individuals whom the implementation of this PCAP may impact. Stakeholders include:

- Metropolitan planning organizations
- Transportation planning organizations
- Regional planning councils
- Economic development organizations
- Environmental advocates
- Industrial associations

- Utilities
- Agricultural and working lands groups
- Waste management entities
- Consumer advocates
- Local elected officials
- Community-based organizations
- Chambers of commerce
- Other interested organizations
- Residents of NEFL MSA

To identify stakeholders, NEFL MSA contacted local elected officials, community organizations, and advocacy organizations known to be interested in clean energy infrastructure and practices. The list of identified stakeholders as of the publication of this PCAP is included in the Acknowledgements. The City of Jacksonville, as the lead organization, will update this list of stakeholders as needed.

### Interagency and Intergovernmental Coordination

As the lead agency, the City of Jacksonville contacted all the sustainability and resilience officers within the NEFL MSA to participate in a bi-weekly call and group on MS Teams. It was also created in partnership with the NEFL Regional Council, a NEFL CPRG Working Group made up of regional stakeholders across all sectors, including public, private, academia, and nonprofit subject matter experts. The group meets at least once a month to discuss progress on the CPRG and offer insight and feedback from different perspectives.

### Outreach Plan

Effectively communicating to LIDACs the benefits of initiatives, such as reductions in GHG emissions, job creation, clean energy job training, decreased energy costs, green space creation, and stakeholder engagement, is crucial to capture their interest and engagement. Here is how we are trying to achieve these goals:

### **Transparent and Accessible Information:**

We are providing concise and easily understandable information about the initiative and its benefits. To improve comprehension, we are using plain language, infographics, and visuals to break down complex concepts.

### **Tailored Messaging:**

Customizing our communication to address the specific concerns and interests of LIDACs. We are trying to highlight how the initiative directly impacts their daily lives, communities, and well-being.

### Storytelling:

Sharing success stories and case studies from similar communities or individuals who have benefited from the initiative, personalizing the narrative to make it relatable and emotionally engaging.

#### **Community Representatives:**

Identifying and involving trusted community representatives, including community leaders and influencers, to advocate for the initiative. These representatives can bridge the gap between the initiative and LIDACs, adding credibility and trust.

#### **Interactive Workshops and Seminars:**

Hosting workshops, seminars, or webinars in LIDAC communities to explain the benefits in detail. Encouraging participation by addressing questions and concerns from residents.

#### Visual Impact Assessment:

Providing visual representations, such as maps or graphs, to illustrate the reductions in GHGs, criteria pollutants, and hazardous air pollutants (HAPs) in specific communities or areas. Showing tangible improvements over time to build confidence in the initiative's effectiveness.

### **Job Creation Tracking:**

Sharing data on the number of jobs created within identified communities due to the initiative and highlight success stories of individuals who have found employment opportunities within their own neighborhoods.

#### **Clean Energy Training and Apprenticeships:**

Showcasing the investment in clean energy job training and apprenticeship programs in LIDAC communities. Highlighting the success stories of participants who have improved their career prospects.

#### **Energy Cost Reductions:**

Providing data and examples of how the initiative has decreased energy costs for residents in LIDAC communities, using real-life utility bill comparisons to demonstrate savings.

#### **Green Space Creation:**

Emphasizing the creation of green spaces for urban heat island mitigation and their recreational and health benefits. Sharing before-and-after photos to illustrate the transformation.

### **Stakeholder Engagement:**

Reporting on the number of stakeholder events, participants, and dollars spent to engage with organizations and residents in LIDAC communities. Sharing feedback and outcomes from these engagements to demonstrate a commitment to community input.

### **Qualitative Descriptions:**

Using qualitative descriptions to capture the human and community-centric aspects of the initiative's impact. Sharing testimonials, quotes, or anecdotes from community members expressing their experiences and perspectives.

### Feedback Mechanism:

Establishing an accessible feedback mechanism for LIDACs to ask questions, voice concerns, and share their own stories related to the initiative. Actively listening and responding to their feedback to build trust and show that their input matters.

### Jobs Lost and Workforce Transition Strategies:

Challenge: Jobs lost due to changes in the economy or industry.

**Strategy:** Developing comprehensive workforce transition programs:

- Training Programs: Offering skill-building programs and vocational training tailored to the needs of the affected workforce.
- Career Counseling: Providing career counseling and guidance to help individuals identify new opportunities and navigate career transitions.
- Job Placement Services: Partnering with local businesses and organizations to create job placement initiatives for displaced workers.
- Entrepreneurship Support: Supporting individuals interested in starting their own businesses, including access to capital and resources.

### Resistance to Infrastructure Development and Siting Strategies:

Challenge: Community resistance to infrastructure development projects.

Strategy: Implementing outreach and appropriate siting strategies:

- Community Engagement: Conducting regular community meetings to gather input and address concerns from residents.
- Transparency: Ensuring transparency in project planning and decision-making processes.
- Impact Assessment: Conducting comprehensive environmental and social impact assessments to identify and mitigate potential adverse effects.

• Alternative Solutions: Exploring alternative sites and technologies that minimize community disruption while achieving project goals.

### Energy Security and Reliability Concerns for Intermittent Generation Assets:

**Challenge:** Concerns regarding the reliability of intermittent energy sources.

**Strategy:** Enhancing energy security and reliability through increased transmission and storage:

- Grid Enhancements: Upgrading grid infrastructure to accommodate intermittent generation and enhance grid resilience.
- Battery Storage: Deploying advanced battery storage solutions to store excess energy and provide backup during low-generation periods.
- Distributed Energy Resources (DERs): Encouraging the adoption of DERs like solar panels and home energy storage to empower communities and reduce dependence on the grid.
- Backup Generation: Developing contingency plans and backup generation options to address intermittent energy supply concerns during critical situations.

### Gentrification and Strategies to Combat Displacement and Increased Cost of Living:

**Challenge:** Gentrification leading to displacement and increased living costs for current residents.

Strategy: Implementing strategies to combat gentrification and support existing residents:

- Affordable Housing: Developing affordable housing initiatives to ensure that long-term residents can continue to afford to live in their communities.
- Rent Control: Exploring policies like rent control or rent stabilization to protect residents from sudden increases in housing costs.
- Economic Empowerment: Invest in local businesses, job creation, and economic development within LIDACs to provide opportunities and support for residents.
- Community Land Trusts: Promote the establishment of community land trusts to maintain control over land and housing in the community's interest.

#### Establish a Clear Communication Plan:

Creating a communication plan outlining the methods and frequency of engagement with LIDACs. Ensure that it is accessible, transparent, and culturally sensitive. Developing a designated communication channel, such as a dedicated email address, phone line, or online platform, to facilitate direct and efficient communication between LIDACs, the lead agency, and its partners.

#### **Regular Consultation Meetings:**

Scheduling regular consultation meetings with LIDACs to discuss ongoing projects, policy developments, and program updates. These meetings should occur at intervals agreed upon with the LIDACs, considering their availability and preferences. Providing LIDACs with relevant documents, reports, and materials before these meetings to facilitate informed discussion.

### LIDAC Representation:

Encouraging the representation of LIDAC members on relevant decision-making bodies, advisory committees, or working groups related to the project's implementation. This ensures their perspectives are integrated into critical decisions. Supporting LIDACs in building capacity, including providing training or resources, to enable them to participate in these roles effectively.

#### **Community Engagement Events:**

Organizing community engagement events, workshops, or public forums to involve a broader indigenous community in discussing the project's progress and impacts. Ensuring that these events are inclusive, culturally sensitive, and accessible.

#### Feedback Mechanisms:

Implementing feedback mechanisms to promptly capture input and concerns from LIDACs and establish a formal process for addressing and responding to feedback. Periodically assessing the effectiveness of engagement efforts through surveys or evaluations to identify areas for improvement.

### **Resource Allocation:**

Allocating resources, such as funding, technical support, or administrative assistance, to enable LIDACs to participate and effectively contribute to the project's active implementation.

### **Document and Share Progress:**

Maintaining records of all interactions and engagements with LIDACs, ensuring that these records are accessible and shared with the Indigenous communities. The hope is that this will build trust and transparency.

### Flexibility and Adaptability:

Flexibility in adjusting the engagement approach based on the evolving needs and preferences of LIDACs. Understanding that engagement strategies may need to adapt as the project progresses.

### Accountability and Reporting:

Establishing mechanisms for regular reporting on engagement activities and outcomes, both internally and externally. Ensuring progress is documented and communicated to all stakeholders, including Indigenous communities, regulatory bodies, and the public.

By implementing this comprehensive approach, the City of Jacksonville and its partners are trying to demonstrate their commitment to genuine collaboration and meaningful engagement with LIDACs throughout the project's implementation process, fostering a respectful and productive relationship

### **Outreach and Coordination Documentation**

Table 17 provides a log of interagency, intergovernmental coordination, and stakeholder and public engagement efforts associated with developing this PCAP. Meeting and outreach materials and resources are available at <u>www.cleanairnortheastflorida.com</u>.

### Table 17 Community Outreach Events

| Date                           | Торіс  | Organizations<br>Involved  | Coordination /<br>Outreach Method   | Location  | Outcome(s) and<br>Next Steps   |
|--------------------------------|--|--|---|---|--|
| 11/1/23                        | Thriving<br>Together:<br>Culture and<br>Community                  | NAACP and others   | The NAACP recognized<br>Community Leaders<br>for their contributions<br>to the community.<br>Ashantae Green<br>networked and talked<br>about CPRG | Hyatt Regency<br>Jacksonville<br>Riverfront<br>(225 East<br>Coastline Drive<br>Jacksonville, FL<br>32202) | Followed up with<br>those interested<br>in learning more<br>about the CPRG                           |
| 11/29/23                       | CPRG   | Resilient First Coast Full<br>Collaborative -<br>Many regional<br>stakeholders involved<br>in sustainability and<br>resilience | Direct invitations,<br>emails, and phone calls;<br>In-person  | St. Johns<br>County<br>Emergency<br>Management<br>(100 EOC Dr, St<br>Augustine, FL<br>32092)              | Invited to join<br>the NEFL CPRG<br>Working Group  |
| 11/29/23                       | CPRG   | National Association<br>of County Agricultural<br>Agents (NACAA)   | Zoom meetings<br>promoted via email and<br>newsletter   | Online  | One-hour info<br>and sharing<br>call; followed up<br>with those who<br>wanted further<br>information |
| 1/03/24,<br>1/29/24            | NEFL MSA CPRG<br>Office Hours                                      | NEFL MSA   | Direct invitations to<br>community influencers,<br>email, and social media  | Microsoft Teams   | Answered<br>questions,<br>received feedback,<br>encouraged<br>continued<br>involvement               |
| 1/05/24,<br>2/7/24,<br>3/25/24 | NEFL Climate<br>Pollution<br>Reduction Grant<br>Working Group      | Northeast Florida<br>Regional Council<br>+ Working Group<br>Members  | Monthly meetings  | Microsoft Teams   | Received draft<br>PCAP feedback<br>and encouraged<br>completion of the<br>survey                     |
| 1/25/24                        | CPRG Subject<br>Matter Expert<br>Panel                             | COJ, Stakeholders  | In mid-December,<br>community members<br>submitted 70+ regional<br>GHG reduction<br>strategies. These were<br>evaluated during this<br>meeting.   | Ed Ball Building,<br>Jacksonville, FL   | Submitted<br>strategies<br>(Google Drive)<br>were reviewed/<br>discussed                             |
| 1/26/24,<br>2/9/24,<br>2/23/24 | Together for<br>Tomorrow: LIDAC<br>Challenges and<br>Opportunities | General public and<br>specific climate experts<br>and groups   | Direct invitations to<br>community influencers,<br>email, and social media  | Zoom  | Received feedback<br>on PCAP and<br>general focus<br>areas   |
| 2/09/24                        | Together for<br>Tomorrow: LIDAC<br>Challenges and<br>Opportunities | General public and<br>specific climate experts<br>and groups   | Direct invitations to<br>community influencers,<br>email, and social media  | Zoom  | Received feedback<br>on GHG measures<br>and additional<br>needs in the MSA                           |
| 2/15/24                        | NAACP<br>Community<br>Outreach Q and A                             | NAACP, NEFL Sierra<br>Club, and Jax Climate<br>Coalition   | NAACP email invites   | Zoom  | Received direct<br>feedback on<br>GHG measures<br>and additional<br>stakeholders                     |
| 2/22/24                        | Kids Hope<br>Alliance  | General public and<br>specific climate experts<br>and groups   | Direct invitations to<br>community influencers,<br>email, and social media  | Kids Hope<br>Alliance 1095<br>A. Philip<br>Randolph Blvd.<br>Jacksonville,<br>Florida 32206               | Received feedback<br>on PCAP and<br>additional needs in<br>the MSA                                   |



## CONCLUSION

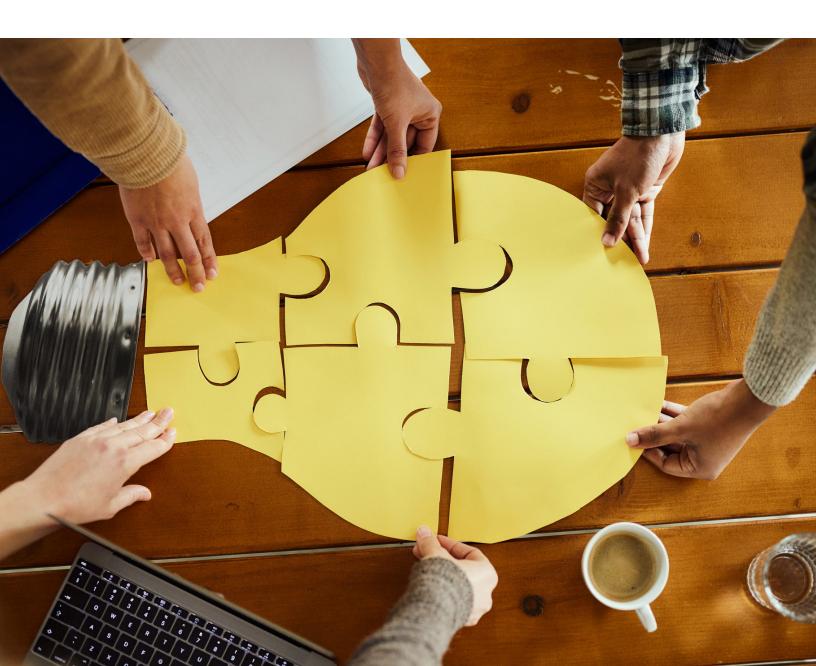
CLEAN AIR NORTHEAST FLORIDA REGIONAL PRIORITY CLIMATE ACTION PLAN

### VI. CONCLUSION

The Clean Air Northeast Florida Regional PCAP represents a significant milestone as the first major deliverable to EPA under Phase 1 of the planning grant phase as part of the Climate Pollution Reduction Grans awarded to the City of Jacksonville in the Northeast Florida MSA. This narrative report includes a focused list of near-term, high-impact, implementation-ready actions to reduce greenhouse gases and a quantitative analysis of expected reductions. The PCAP is instrumental in laying the groundwork for NEFL's application for Phase II implementation funding grants, demonstrating the region's readiness to utilize federal funding effectively to meet climate goals by enhancing existing efforts. In addition to the PCAP, another critical deliverable in this initiative includes preparing for the CPRG Implementation Grant application. The compressed timeline for the PCAP's delivery by March 1, 2024, facilitated meaningful engagement with eligible applicants for this grant opportunity, further underscoring the plan's significance in driving forward climate action initiatives in the region.

Upon submitting the Implementation Grant application, the Clean Air Northeast Florida Team will continue developing the Comprehensive Climate Action Plan due in the summer of 2025. The CCAP aims to build upon the implementation of the PCAP to achieve the region's 2030 milestone and further our MSA's climate goals, particularly for 2040 and 2050.

If you have questions about this PCAP or suggestions for the upcoming CCAP and status report, contact Ashantae Green at CPRG@coj.net.



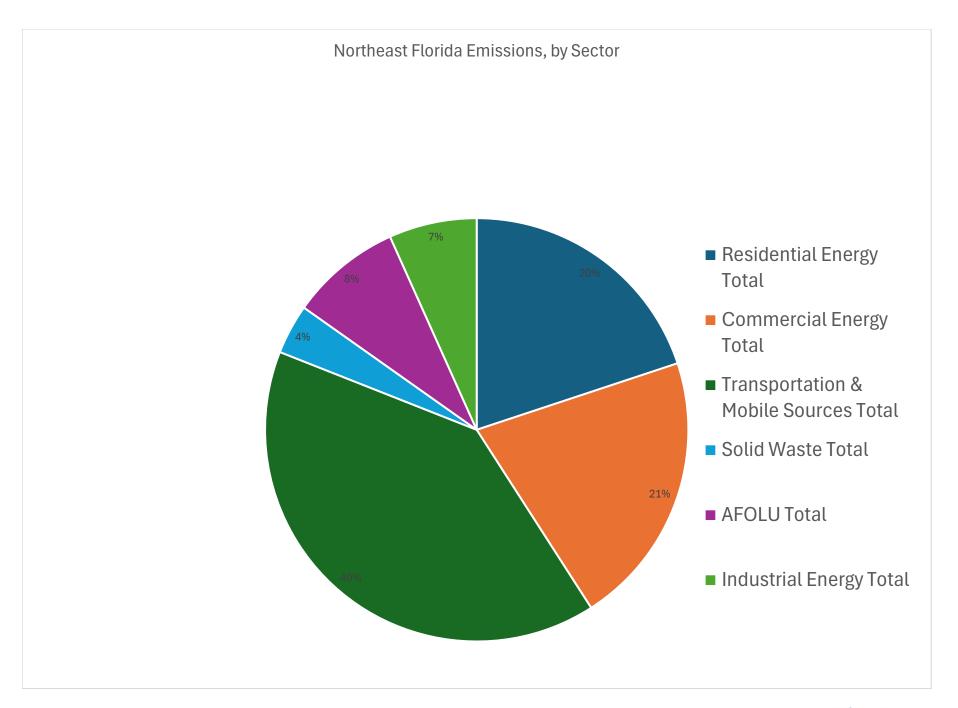
## APPENDICES

CLEAN AIR NORTHEAST FLORIDA REGIONAL PRIORITY CLIMATE ACTION PLAN

### Northeast Florida 2019 Community Greenhouse Gas Emissions\*, by sector and fuel type

| Sector                                | Fuel Or Source            | Usage Us       | age Units | Emissions |         |
|---------------------------------------|---------------------------|----------------|-----------|-----------|---------|
| Residential Energy                    | Electricity               | 9668068028 kW  | Vh        |           | 3552831 |
| Residential Energy                    | Natural Gas               | 2011918457 MM  | MBtu      |           | 664884  |
| Residential Energy                    | LPG                       | 479097 MM      | MBtu      |           | 30458   |
| Residential Energy                    | Wood                      | 218304 MM      | MBtu      |           | 10776   |
| Residential Energy                    | Distillate Fuel Oil No. 2 | 133008 MM      | MBtu      |           | 9904    |
| Residential Energy Total              |                           | 34915166.11 MM | MBtu      |           | 3662179 |
| Commercial Energy                     | Electricity               | 8001576 MV     | Nh        |           | 3017941 |
| Commercial Energy                     | LPG                       | 4162904 MM     | MBtu      |           | 264645  |
| Commercial Energy                     | Gasoline                  | 2360857 MM     | MBtu      |           | 167022  |
| Commercial Energy                     | Distillate Fuel Oil No. 2 | 1122345 MM     | MBtu      |           | 83566   |
| Commercial Energy                     | Kerosene                  | 663 MM         | MBtu      |           | 50      |
| Commercial Energy                     | Propane                   | 678959 MM      | MBtu      |           | 42136   |
| Commercial Energy                     | Natural Gas               | 5374076 MM     | MBtu      |           | 285828  |
| Commercial Energy Total               |                           | 13699831.3 MM  | MBtu      |           | 3861188 |
| Transportation & Mobile Sources       | Diesel                    | 2535693175 VM  | 1T        |           | 2323120 |
| Transportation & Mobile Sources       | Gasoline                  | 11768259949 VM | 1T        |           | 5003783 |
| Transportation & Mobile Sources       | Other                     | 0              |           |           | 45930   |
| Transportation & Mobile Sources Total |                           | 0              |           |           | 7372833 |
| Solid Waste                           | Waste Sent to Landfill    | 3742632 Tor    | ns        |           | 700223  |
| Solid Waste Total                     |                           | 0              |           |           | 700223  |
| AFOLU                                 | Other                     | 0              |           |           | 1561191 |
| AFOLU Total                           |                           | 0              |           |           | 1561191 |
| Industrial Energy                     | Natural Gas               | 9129321 MM     | MBtu      |           | 576361  |
| Industrial Energy                     | Residual Fuel Oil No. 6   | 0 MM           | MBtu      |           | 701     |
| Industrial Energy                     |                           | 0 MM           | MBtu      |           | 622872  |
| Industrial Energy                     | Distillate Fuel Oil No. 2 | 0 MM           | MBtu      |           | 16476   |
| Industrial Energy                     | Propane                   | 0 MM           | MBtu      |           | 62      |
| Industrial Energy                     | Other                     | 0              |           |           | 18755   |
| Industrial Energy Total               |                           | 0              |           |           | 1235227 |



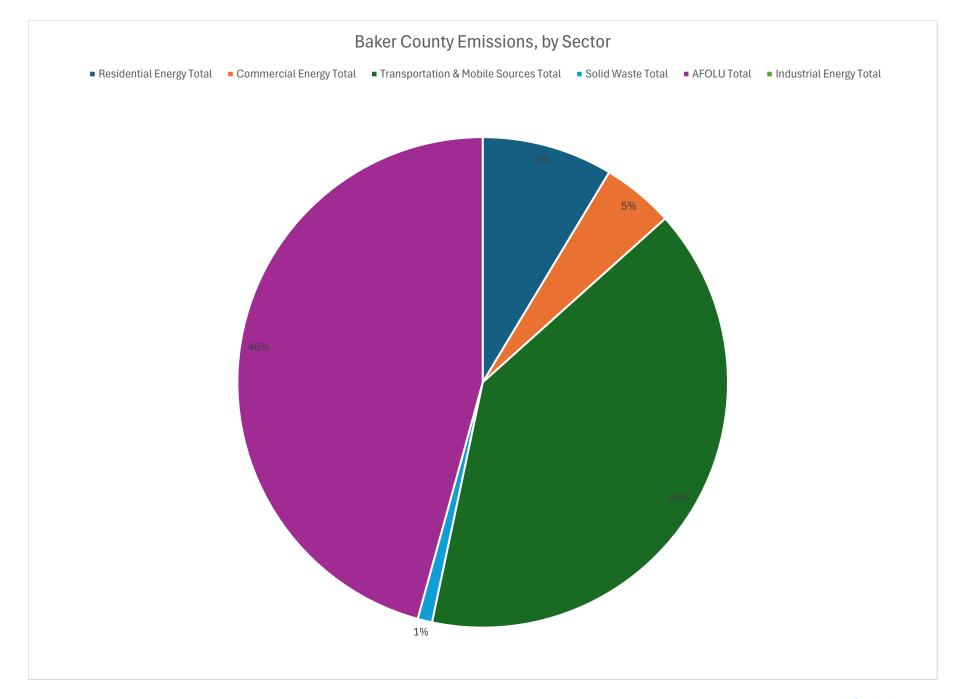




### Baker County, Florida 2019 Community Greenhouse Gas Emissions\*, by sector and fuel type

| Sector                                | Fuel Or Source            | Usage      | Usage Units | Emissions |        |
|---------------------------------------|---------------------------|------------|-------------|-----------|--------|
| Residential Energy                    | Electricity               | 171591485  | 5 kWh       |           | 52088  |
| Residential Energy                    | Natural Gas               | 22945      | 5 MMBtu     |           | 1220   |
| Residential Energy                    | LPG                       | 8503       | 8 MMBtu     |           | 541    |
| Residential Energy                    | Wood                      | 405        | 5 MMBtu     |           | 4      |
| Residential Energy                    | Distillate Fuel Oil No. 2 | 135        | 5 MMBtu     |           | 10     |
| Residential Energy Total              |                           | 617458.147 | ' MMBtu     |           | 53863  |
| Commercial Energy                     | Electricity               | 72276      | 6 MWh       |           | 21940  |
| Commercial Energy                     | LPG                       | 37602      | 2 MMBtu     |           | 2390   |
| Commercial Energy                     | Gasoline                  | 21325      | 5 MMBtu     |           | 1509   |
| Commercial Energy                     | Distillate Fuel Oil No. 2 | 10138      | 8 MMBtu     |           | 755    |
| Commercial Energy                     | Kerosene                  | e          | 6 MMBtu     |           | 0      |
| Commercial Energy                     | Propane                   | 6133       | 8 MMBtu     |           | 381    |
| Commercial Energy                     | Natural Gas               | 48543      | 8 MMBtu     |           | 2582   |
| Commercial Energy Total               |                           | 123747.247 | ' MMBtu     |           | 29557  |
| Transportation & Mobile Sources       | Diesel                    | 44188221   | VMT         |           | 65066  |
| Transportation & Mobile Sources       | Gasoline                  | 426659113  | B VMT       |           | 176116 |
| Transportation & Mobile Sources       | Other                     |            |             |           | 8261   |
| Transportation & Mobile Sources Total |                           |            |             |           | 249443 |
| Solid Waste                           | Waste Sent to Landfill    | 29272      | 2 Tons      |           | 5949   |
| Solid Waste Total                     |                           |            |             |           | 5949   |
| AFOLU                                 | Other                     |            |             |           | 285494 |
| AFOLU Total                           |                           |            |             |           | 285494 |



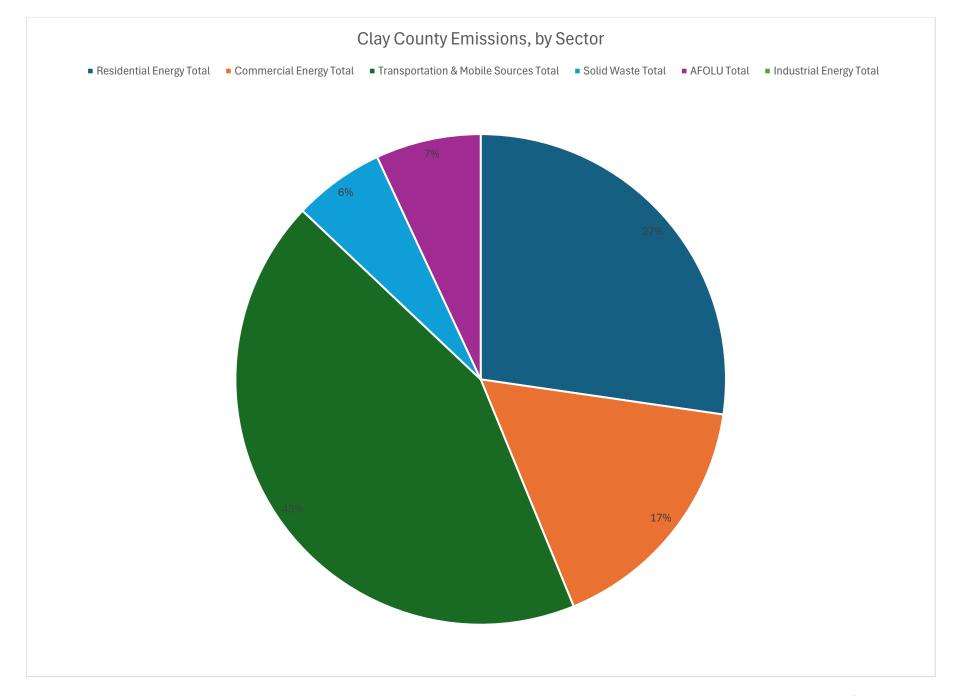




### Clay County, Florida 2019 Community Greenhouse Gas Emissions\*, by sector and fuel type

| Sector                                | Fuel Or Source            | Usage      | Usage Units | Emissions |        |
|---------------------------------------|---------------------------|------------|-------------|-----------|--------|
| Residential Energy                    | Electricity               | 1285856509 | kWh         |           | 504179 |
| Residential Energy                    | Distillate Fuel Oil No. 2 | 1011       | MMBtu       |           | 75     |
| Residential Energy                    | Wood                      | 3034       | MMBtu       |           | 30     |
| Residential Energy                    | Natural Gas               | 171943     | MMBtu       |           | 9145   |
| Residential Energy                    | LPG                       | 63720      | MMBtu       |           | 4051   |
| Residential Energy Total              |                           | 4627050.41 | MMBtu       |           | 517480 |
| Commercial Energy                     | Electricity               | 629597     | MWh         |           | 246863 |
| Commercial Energy                     | LPG                       | 327554     | MMBtu       |           | 20823  |
| Commercial Energy                     | Gasoline                  | 185762     | MMBtu       |           | 13142  |
| Commercial Energy                     | Distillate Fuel Oil No. 2 | 88311      | MMBtu       |           | 6575   |
| Commercial Energy                     | Kerosene                  | 52         | MMBtu       |           | 4      |
| Commercial Energy                     | Propane                   | 53423      | MMBtu       |           | 3315   |
| Commercial Energy                     | Natural Gas               | 422854     | MMBtu       |           | 22490  |
| Commercial Energy Total               |                           | 1077958.15 | MMBtu       |           | 313212 |
| Transportation & Mobile Sources       | Diesel                    | 149129124  | VMT         |           | 219589 |
| Transportation & Mobile Sources       | Gasoline                  | 1439915385 | VMT         |           | 594366 |
| Transportation & Mobile Sources       | Other                     |            |             |           | 6140   |
| Transportation & Mobile Sources Total |                           |            |             |           | 820095 |
| Solid Waste                           | Waste Sent to Landfill    | 228819     | Tons        |           | 113792 |
| Solid Waste Total                     |                           |            |             |           | 113792 |
| AFOLU                                 | Other                     |            |             |           | 131536 |
| AFOLU Total                           |                           |            |             |           | 131536 |



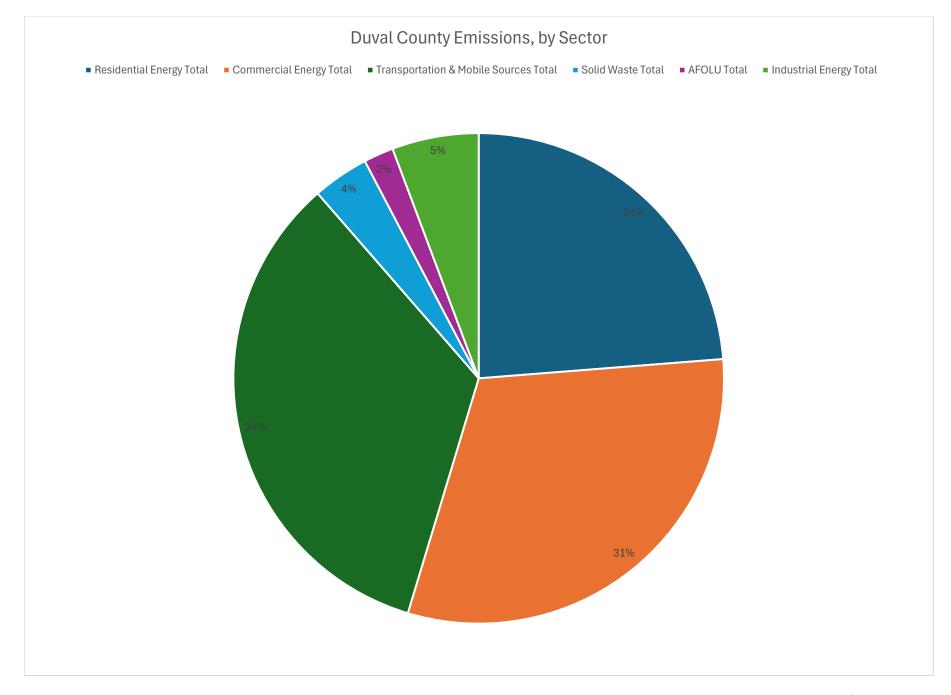




### Duval County, Florida 2019 Community Greenhouse Gas Emissions\*, by sector and fuel type

| Sector                                | Fuel Or Source            | Usage       | Usage Units | Emissions |         |
|---------------------------------------|---------------------------|-------------|-------------|-----------|---------|
| Residential Energy                    | Electricity               | 5694287559  | kWh         |           | 2232708 |
| Residential Energy                    | Distillate Fuel Oil No. 2 | 129882      | MMBtu       |           | 9671    |
| Residential Energy                    | Natural Gas               | 761431      | MMBtu       |           | 40498   |
| Residential Energy                    | LPG                       | 282178      | MMBtu       |           | 17939   |
| Residential Energy                    | Wood                      | 13437       | MMBtu       |           | 134     |
| Residential Energy Total              |                           | 20615837.15 | MMBtu       |           | 2300950 |
| Commercial Energy                     | Electricity               | 6022871     | MWh         |           | 2361544 |
| Commercial Energy                     | LPG                       | 3133462     | MMBtu       |           | 199202  |
| Commercial Energy                     | Gasoline                  | 1777042     | MMBtu       |           | 125718  |
| Commercial Energy                     | Distillate Fuel Oil No. 2 | 844800      | MMBtu       |           | 62901   |
| Commercial Energy                     | Kerosene                  | 499         | MMBtu       |           | 38      |
| Commercial Energy                     | Propane                   | 511059      | MMBtu       |           | 31716   |
| Commercial Energy                     | Natural Gas               | 4045123     | MMBtu       |           | 215146  |
| Commercial Energy Total               |                           | 10312005.55 | MMBtu       |           | 2996265 |
| Transportation & Mobile Sources       | Diesel                    | 599091276   | VMT         |           | 882145  |
| Transportation & Mobile Sources       | Gasoline                  | 5784522314  | VMT         |           | 2387728 |
| Transportation & Mobile Sources       | Other                     |             |             |           | 18061   |
| Transportation & Mobile Sources Total |                           |             |             |           | 3287934 |
| Solid Waste                           | Waste Sent to Landfill    | 2752896     | Tons        |           | 360442  |
| Solid Waste Total                     |                           |             |             |           | 360442  |
| AFOLU                                 | Other                     |             |             |           | 191016  |
| AFOLU Total                           |                           |             |             |           | 191016  |
| Industrial Energy                     | Natural Gas               | 9129321     | MMBtu       |           | 503859  |
| Industrial Energy                     | Residual Fuel Oil No. 6   | 0           | MMBtu       |           | 0       |
| Industrial Energy                     |                           | 0           | MMBtu       |           | 29746   |
| Industrial Energy                     | Distillate Fuel Oil No. 2 | 0           | MMBtu       |           | 1044    |
| Industrial Energy                     | Propane                   | 0           | MMBtu       |           | 0       |
| Industrial Energy                     | Other                     |             |             |           | 18757   |
| Industrial Energy Total               |                           |             |             |           | 553406  |

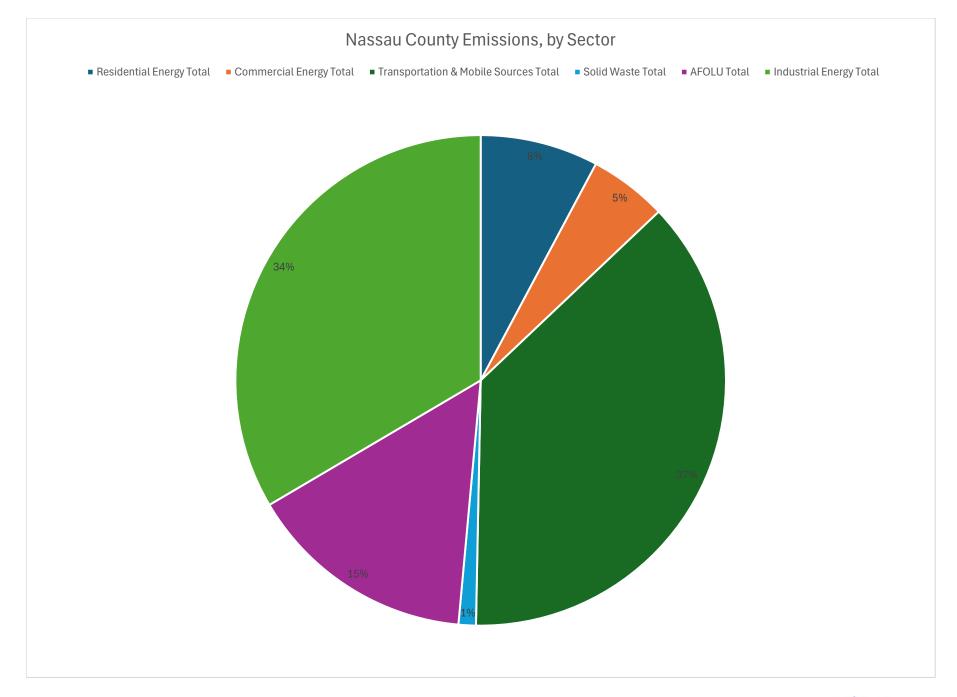






| Sector                                | Fuel Or Source            | Usage       | Usage Units | Emissions |        |
|---------------------------------------|---------------------------|-------------|-------------|-----------|--------|
| Residential Energy                    | Electricity               | 505437923   | kWh         |           | 153430 |
| Residential Energy                    | Wood                      | 1193        | MMBtu       |           | 12     |
| Residential Energy                    | Distillate Fuel Oil No. 2 | 398         | MMBtu       |           | 30     |
| Residential Energy                    | Natural Gas               | 67586       | MMBtu       |           | 3595   |
| Residential Energy                    | LPG                       | 25047       | MMBtu       |           | 1592   |
| Residential Energy Total              |                           | 1818778.193 | MMBtu       |           | 158659 |
| Commercial Energy                     | Electricity               | 256143      | MWh         |           | 77755  |
| Commercial Energy                     | LPG                       | 133261      | MMBtu       |           | 8472   |
| Commercial Energy                     | Gasoline                  | 75575       | MMBtu       |           | 5347   |
| Commercial Energy                     | Distillate Fuel Oil No. 2 | 35928       | MMBtu       |           | 2675   |
| Commercial Energy                     | Kerosene                  | 21          | MMBtu       |           | 2      |
| Commercial Energy                     | Propane                   | 21735       | MMBtu       |           | 1349   |
| Commercial Energy                     | Natural Gas               | 172033      | MMBtu       |           | 9150   |
| Commercial Energy Total               |                           | 438553.874  | MMBtu       |           | 104750 |
| Transportation & Mobile Sources       | Gasoline                  | 1331156611  | VMT         |           | 549473 |
| Transportation & Mobile Sources       | Diesel                    | 137865198   | VMT         |           | 203003 |
| Transportation & Mobile Sources       | Other                     |             |             |           | 8867   |
| Transportation & Mobile Sources Total |                           |             |             |           | 761343 |
| Solid Waste                           | Waste Sent to Landfill    | 194034      | Tons        |           | 23277  |
| Solid Waste Total                     |                           |             |             |           | 23277  |
| AFOLU                                 | Other                     |             |             |           | 307075 |
| AFOLU Total                           |                           |             |             |           | 307075 |
| Industrial Energy                     | Natural Gas               | 0           | MMBtu       |           | 72502  |
| Industrial Energy                     | Residual Fuel Oil No. 6   | 0           | MMBtu       |           | 701    |
| Industrial Energy                     |                           | 0           | MMBtu       |           | 593126 |
| Industrial Energy                     | Distillate Fuel Oil No. 2 | 0           | MMBtu       |           | 15432  |
| Industrial Energy                     | Propane                   | 0           | MMBtu       |           | 62     |
| Industrial Energy                     | Other                     |             |             |           | -2     |
| Industrial Energy Total               |                           |             |             |           | 681821 |



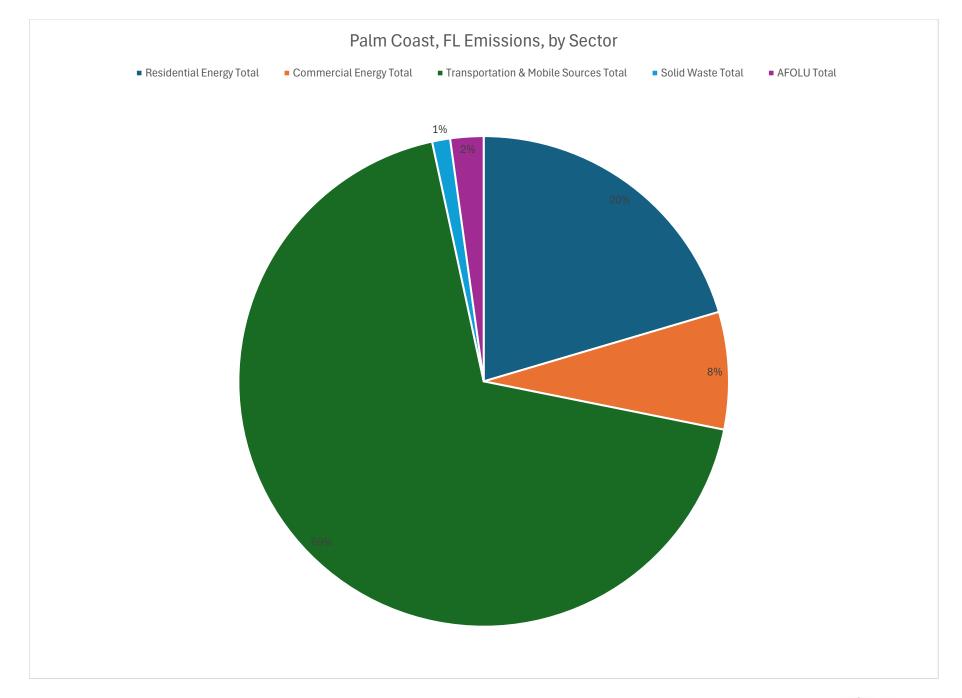




### Palm Coast, Florida 2019 Community Greenhouse Gas Emissions\*, by sector and fuel type

| Sector                                | Fuel Or Source            | Usage      | Usage Units | Emissions |        |
|---------------------------------------|---------------------------|------------|-------------|-----------|--------|
| Residential Energy                    | Electricity               | 522681618  | kWh         |           | 158665 |
| Residential Energy                    | Natural Gas               | 69892      | MMBtu       |           | 3717   |
| Residential Energy                    | Distillate Fuel Oil No. 2 | 411        | MMBtu       |           | 31     |
| Residential Energy                    | LPG                       | 25901      | MMBtu       |           | 1647   |
| Residential Energy                    | Wood                      | 1233       | MMBtu       |           | 12     |
| Residential Energy Total              |                           | 1880826.68 | MMBtu       |           | 164072 |
| Commercial Energy                     | Electricity               | 151846     | MWh         |           | 46094  |
| Commercial Energy                     | LPG                       | 79000      | MMBtu       |           | 5022   |
| Commercial Energy                     | Gasoline                  | 44802      | MMBtu       |           | 3170   |
| Commercial Energy                     | Distillate Fuel Oil No. 2 | 21299      | MMBtu       |           | 1586   |
| Commercial Energy                     | Kerosene                  | 13         | MMBtu       |           | 1      |
| Commercial Energy                     | Propane                   | 12885      | MMBtu       |           | 800    |
| Commercial Energy                     | Natural Gas               | 101984     | MMBtu       |           | 5424   |
| Commercial Energy Total               |                           | 259983.518 | MMBtu       |           | 62097  |
| Transportation & Mobile Sources       | Diesel                    | 100748060  | VMT         |           | 148349 |
| Transportation & Mobile Sources       | Gasoline                  | 972772302  | VMT         |           | 401540 |
| Transportation & Mobile Sources       | Other                     |            |             |           | 0      |
| Transportation & Mobile Sources Total |                           |            |             |           | 549889 |
| Solid Waste                           | Waste Sent to Landfill    | 83502      | Tons        |           | 9538   |
| Solid Waste Total                     |                           |            |             |           | 9538   |
| AFOLU                                 | Other                     |            |             |           | 17590  |
| AFOLU Total                           |                           |            |             |           | 17590  |
| Industrial Energy                     | Natural Gas               | 0          | MMBtu       | 0         |        |
| Industrial Energy                     | Residual Fuel Oil No. 6   | 0          | MMBtu       | 0         |        |
| Industrial Energy                     |                           | 0          | MMBtu       | 0         |        |
| Industrial Energy                     | Distillate Fuel Oil No. 2 | 0          | MMBtu       | 0         |        |
| Industrial Energy                     | Propane                   | 0          | MMBtu       | 0         |        |
| Industrial Energy                     | Other                     |            |             | 0         |        |
| Industrial Energy Total               |                           |            |             | 0         |        |



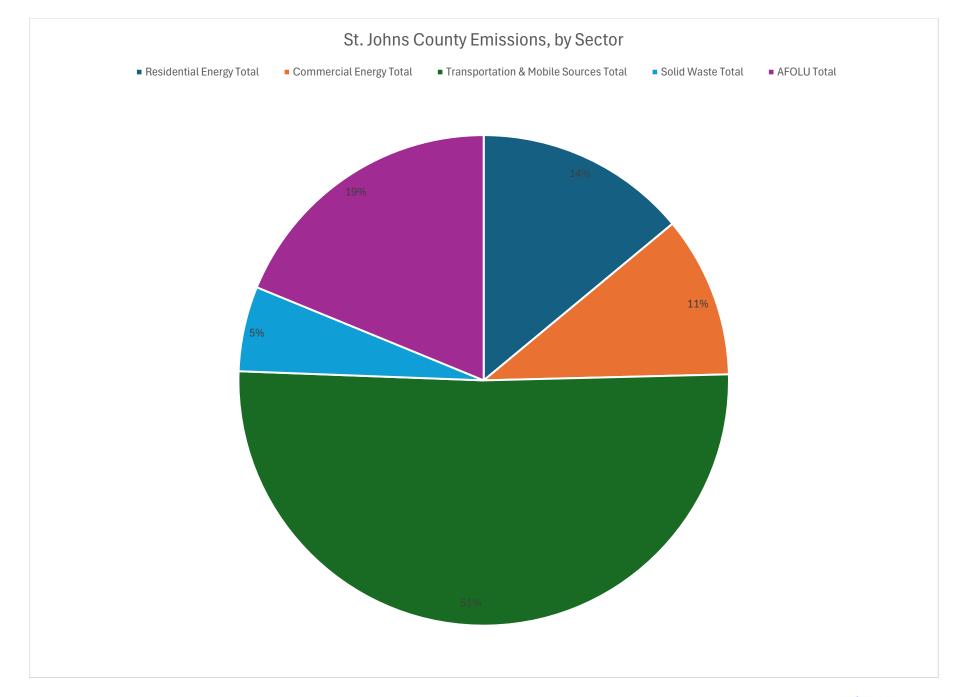




### St. Johns County, Florida 2019 Community Greenhouse Gas Emissions\*, by sector and fuel type

| Sector                                | Fuel Or Source            | Usage       | Usage Units | Emissions |
|---------------------------------------|---------------------------|-------------|-------------|-----------|
| Residential Energy                    | Electricity               | 1488212934  | kWh         | 451761    |
| Residential Energy                    | Natural Gas               | 199002      | MMBtu       | 10584     |
| Residential Energy                    | Wood                      | 3512        | MMBtu       | 35        |
| Residential Energy                    | Distillate Fuel Oil No. 2 | 1171        | MMBtu       | 87        |
| Residential Energy                    | LPG                       | 73748       | MMBtu       | 4688      |
| Residential Energy Total              |                           | 5355215.531 | MMBtu       | 467155    |
| Commercial Energy                     | Electricity               | 868843      | MWh         | 263745    |
| Commercial Energy                     | LPG                       | 452025      | MMBtu       | 28736     |
| Commercial Energy                     | Gasoline                  | 256351      | MMBtu       | 18136     |
| Commercial Energy                     | Distillate Fuel Oil No. 2 | 121869      | MMBtu       | 9074      |
| Commercial Energy                     | Kerosene                  | 72          | MMBtu       | 5         |
| Commercial Energy                     | Propane                   | 73724       | MMBtu       | 4575      |
| Commercial Energy                     | Natural Gas               | 583539      | MMBtu       | 31036     |
| Commercial Energy Total               |                           | 1487582.964 | MMBtu       | 355307    |
| Transportation & Mobile Sources       | Diesel                    | 311379883   | VMT         | 458498    |
| Transportation & Mobile Sources       | Gasoline                  | 3006525637  | VMT         | 1241030   |
| Transportation & Mobile Sources       | Other                     |             |             | 4601      |
| Transportation & Mobile Sources Total |                           |             |             | 1704129   |
| Solid Waste                           | Waste Sent to Landfill    | 454109      | Tons        | 187225    |
| Solid Waste Total                     |                           |             |             | 187225    |
| AFOLU                                 | Other                     |             |             | 628480    |
| AFOLU Total                           |                           |             |             | 628480    |



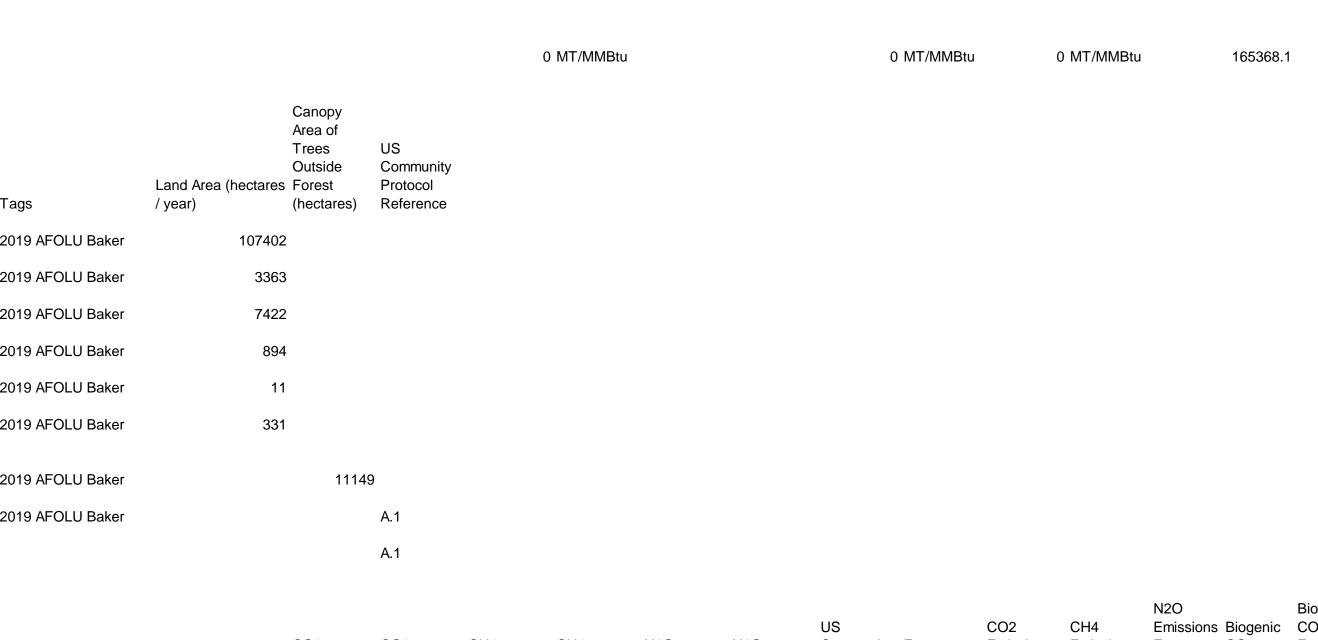




| Residential<br>Output Record<br>Id Ids With Co2e Inventory Record  | Calculator   |                            | PC Ref<br>mber Factor Profiles                                    | Global Warming Potential   | Category Activity Source                                     | ce Notes   | Created By   | Created At                          | CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   | Electricity Energy Emissions                                     |  | 4 CH4 N2O<br>issions Emissions Emissions<br>tor Factor Units Factor | N2O US<br>s Emissions Commur<br>Factor Units Protocol | Energy Bioge<br>ity Equivalent CO2<br>(MMBtu) Emiss | enic Biogenic<br>CO2<br>sions Emissions                                 |   |  |
|--|--|----------------------------|---|--|--|--|--|-------------------------------------|---|--|--|---|---|---|---|---|--|
| 245552 3760110 2019-Baker-County-Residential-Energy-FPL  | Emissions from Grid Electricity (USCP Required)  | Scope 2 I.1.               | Florida Power and Ligh<br>2019 (FPL and<br>2 eGRID2018 factors)   | IPCC 5th Assessment 100<br>Year Values                             | Residential<br>Energy Activity                               | American Community<br>Survey ACSST5Y2019   | apolematidis@hanson-<br>inc.com                    | 2023 Dec 20<br>01:52pm              | 2019 Baker<br>51758.7329 5.13695695 0.70049413 52088.1987 RESIDENTIAL FPL   |  |  | 7716E-06 MT/MMBtu 1.1961E   |   |   |   |   |  |
| 246111 3771157 2019-Baker-County-Residential-Fuel-LPG  | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel | Scope 1 I.1.               | 1   | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | ResidentialSource andEnergyActivityResidentialSource and     | American Community<br>Survey ACSST5Y2019<br>American Community   | rvolenec@hanson-inc.com                            | 2024 Jan 4<br>09:53pm<br>2024 Jan 4 | 2019 Baker<br>535.527127 0.09242533 0.00924253 540.564308 RESIDENTIAL LPG<br>2019 Baker   | 62.98  | 3 kg/MMBtu 0.0                             | 01086957 kg/MMBtu 0.001086  | 696 kg/MMBtu BE.1.2                                   | 8503.13   | 0 kg/MMBtu  |   |  |
| <ul> <li>246113 3771199 2019-Baker-County-Residential-Fuel-Fuel Oil</li> <li>247895 3801521 2019-Baker-County-Residential-Fuel-Wood</li> </ul> |  | Scope 1 I.1.               |   | Year Values<br>IPCC 5th Assessment 100<br>Year Values              | Energy Activity<br>Residential Source and<br>Energy Activity | Survey ACSST5Y2019   | rvolenec@hanson-inc.com                            | 09:54pm<br>2024 Jan 17              | 9.9823812 0.00146707 9.7804E-05 10.0493772 RESIDENTIAL Fuel Oi<br>2019 RESIDENTIAL<br>0 0.12795156 0.00170062 4.03330851 Baker fuel |  | 8 kg/MMBtu 0.0                             |   | 464 kg/MMBtu BE.1.2<br>042 kg/MMBtu                   | 134.97<br>404.91                                    | 0 kg/MMBtu<br>93.8 kg/MMBtu   |   |  |
| 247896 3801545 2019-Baker-County-Residential-Fuel-NGas   | Emissions from Stationary Fuel<br>Combustion (USCP Required)                                   |                            |   | IPCC 5th Assessment 100<br>Year Values                             | Residential Source and<br>Energy Activity                    | American Community<br>Survey ACSST5Y2019   |  | 2024 Jan 17                         | 2019 RESIDENTIAL<br>1216.54125 0.11472475 0.0022945 1220.36158 Baker fuel   |  | 2 kg/MMBtu                                 |   | 001 kg/MMBtu BE.1.1                                   |   | 0 kg/MMBtu  |   |  |
| Transportation   |  |                            |   |  |  |  |  |                                     |   |  |  |   |   |   |   |   |  |
| Output Record  |  | GF                         | PC Ref  |  |  |  |  |                                     |   |  | Biofuel CO:<br>Energy Emi                  | Biogenic<br>2 CO2 CO2<br>issions Emissions Emissions                | Biogenic<br>CO2 CH4<br>s Emissions Emissior           | CH4 N2O<br>ns Emissions Emiss                       | US<br>N2O Communit E<br>sions Emissions y Protocol E                    |   |  |
| Id Ids With Co2e Inventory Record  | Calculator   | Gpc Scope Nu               |   | Global Warming Potential   | Category Activity Source                                     | ce Notes<br>The above data is pulled<br>from Google's  | Created By   | Created At                          | CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   | -  |  | tor Factor Units Factor   | Factor Units Factor                                   | Factor Units Facto                                  | or Factor Units Reference t   | (MMBtu)   |  |
|  |  |                            | Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) and |  |  | Environmental Insights platform for Baker County and calculated through                                |  |                                     |   |  |  |   |   |   |   |   |  |
| 246032 3769621 2019-Baker-Transportation-Gasoline-GEI  | On Road Transportation (USCF<br>Required)  | Scope 1 II.1               | 2019 US National<br>Defaults (updated                             | IPCC 5th Assessment 100<br>Year Values                             | Transportatio<br>n & Mobile Source and<br>Sources Activity   | ClearPath's guidance<br>documentation and<br>spreadsheet.  | mcoalson@hanson-<br>inc.com                        | 2024 Jan 3<br>06:53pm               | 2019 Baker<br>174683.55 8.31696849 4.52599987 176115.815 transportation Gasoline  | e 426659113.1 2486952.6  | S 0  | 0.07024 MT/MMBtu 0.0684 <sup>2</sup>                                | 136 MT/MMBtu 1.949E                                   | -08 MT/mile 1.00                                    | 61E-08 MT/mile TR.1.A   |   |  |
|  |  |                            | Florida Power and Light   |  |  | The above data is pulled<br>from Google's<br>Environmental Insights                                    |  | 00.00pm                             |   |  |  |   |   |   |   |   |  |
|  |  |                            | 2019 (FPL and<br>eGRID2018 factors) and<br>2019 US National       |  | Transportatio  | platform for Baker County<br>and calculated through<br>ClearPath's guidance                            |  |                                     |   |  |  |   |   |   |   |   |  |
| 246126 3771441 2019-Baker-Transportation-Diesel-GEI  | On Road Transportation (USCF<br>Required)  | Scope 1 II.1               | Defaults (updated<br>.1 2020)                                     | IPCC 5th Assessment 100<br>Year Values                             | Transportatio<br>n & Mobile Source and<br>Sources Activity   | documentation and spreadsheet.   | mcoalson@hanson-<br>inc.com                        | 2024 Jan 4<br>10:27pm               | 2019 Baker<br>65008.7867 0.20327156 0.19417586 65065.9349 transportation Diesel   | 44188221.35 879275.6   | 6 0 0.0                                    | 07393448 MT/MMBtu 0.073773  | 323 MT/MMBtu 4.6E                                     | -09 MT/mile 4.3                                     | 94E-09 MT/mile TR.2.C   |   |  |
|  |  |                            |   |  |  | Where available<br>Sustainability or ESG   |  |                                     |   |  |  |   |   |   |   |   |  |
|  |  |                            |   |  |  | reports were used to<br>determine Total GHG<br>Emissions in units of Metric                            | ;  |                                     |   |  |  |   |   |   |   |   |  |
|  |  |                            |   |  |  | Tons of CO2e.<br>Sustainability or ESG<br>reports were available for                                   |  |                                     |   |  |  |   |   |   |   |   |  |
|  |  |                            |   |  |  | the following Railroad<br>Companies and are<br>attached: CSX, Union                                    |  |                                     |   |  |  |   |   |   |   |   |  |
|  |  |                            |   |  |  | Pacific, Norfolk Southern.<br>Where Sustainability or ES<br>reports were not available                 |  |                                     |   |  |  |   |   |   |   |   |  |
|  |  |                            |   |  |  | the AVG emissions per mile<br>of track and AVG gallons of<br>diesel per mile of track in th            | f  |                                     |   |  |  |   |   |   |   |   |  |
|  |  |                            | Florida Power and Ligh  | t  | Transportatio  | given County was used to<br>calculate the total annual<br>gallons Diesel and annual                    |  |                                     |   |  |  |   |   |   |   |   |  |
| 247840 3800559 2019-Baker-Rail-Gasoline-FDOT   | Rail Transportation (USCP<br>Recommended)  | Scope 1 II.2               | 2019 (FPL and<br>eGRID2018 factors)                               | IPCC 5th Assessment 100<br>Year Values                             | n & Mobile Source and<br>Sources Activity                    | GHG emissions. All data is based off the 2019 year.  |  | 2024 Jan 17<br>04:32pm              | 8261 8261   |  |  | 0 MT/MMBtu  |   | 0 MT/MMBtu  | 0 MT/MMBtu  | 165368.1  |  |
| AFOLU  |  |                            |   |  |  |  |  |                                     |   | Canopy<br>Area of  |  |   |   |   |   |   |  |
| Output Record  |  | GF                         | PC Ref  |  |  |  |  |                                     |   | Trees<br>Outside   | US<br>Community<br>Protocol                |   |   |   |   |   |  |
| Id Ids With Co2e Inventory Record<br>246052 3770126 2019-Baker-County-AFOLU-Undisturbed Ford   | Calculator<br>Emissions and Removals from<br>est Forests (USCP Recommended)                    | Gpc Scope Nu               | mber Factor Profiles  | Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values | Category Activity Source                                     | ce Notes<br>LEARN Report 2016-2019<br>(Gainesville reference)  |  | 2024 Jan 4                          | CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>2019 AFOLU Baker   |  | Reference                                  |   |   |   |   |   |  |
| 246053 3770130 2019-Baker-AFOLU-Forest to Grassland<br>2019-Baker-County-AFOLU-Non-Forest to   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from       | Scope 1 V.2                |   | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU  | (Gainesville reference)<br>(Gainesville reference)<br>LEARN Report 2016-2019                           | rvolenec@hanson-inc.com                            | 2024 Jan 4                          | 2019 AFOLU Baker  | 3363   |  |   |   |   |   |   |  |
| 246055 3770138 2019-Baker-AFOLU-Forest to Settlement   | Forests (USCP Recommended)<br>Emissions and Removals from<br>Forests (USCP Recommended)        | Scope 1 V.2                |   | Year Values<br>IPCC 5th Assessment 100<br>Year Values              | AFOLU<br>AFOLU   | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)                           | rvolenec@hanson-inc.com                            | n 02:47pm<br>2024 Jan 4             | 2019 AFOLU Baker<br>2019 AFOLU Baker  | 7422<br>894  |  |   |   |   |   |   |  |
| 246055 3770138 2019-Baker-County-AFOLU-Forest to Other<br>246056 3770142 Non-Forest  |  |                            |   | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU  | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)<br>LEARN Report 2016-2019 | rvolenec@hanson-inc.com                            | 2024 Jan 4                          | 2019 AFOLU Baker  | 11   |  |   |   |   |   |   |  |
| 246057 3770146 2019-Baker-County-AFOLU-Forest to Wetlan  |  | -                          | 2   | Year Values  | AFOLU  | (Gainesville reference)  | rvolenec@hanson-inc.com                            |                                     | 2019 AFOLU Baker  | 331  |  |   |   |   |   |   |  |
| 246058 3770152 2019-Baker-County-AFOLU-Outside of Fores  | ts Recommended)<br>Emissions from Agricultural   | Scope 1 V.2                |   | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU  | LEARN Report 2016-2019<br>(Gainesville reference)<br>2017 USDA Agricultural                            | rvolenec@hanson-inc.com                            | 03:04pm<br>2024 Jan 15              | 2019 AFOLU Baker  | 11149  |  |   |   |   |   |   |  |
| 2473333792504 2019-Baker-AFOLU-Enteric Fermentation<br>x2019-Baker-County-AFOLU-Enteric2484533811195 Fermentation                              | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)        | Scope 1 V.1<br>Scope 1 V.1 |   | Year Values<br>IPCC 5th Assessment 100<br>Year Values              | AFOLU Source<br>AFOLU Source                                 | Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com | 2024 Jan 22                         | 0     768     0     21504 2019 AFOLU Baker       0     21503.6     0     602100.8   |  | A.1<br>A.1                                 |   |   |   |   |   |  |
| Commercial   |  |                            |   |  |  |  |  |                                     |   |  |  |   |   | CO2   | N2O<br>CH4 Emissions E  | Biogenic<br>Biogenic CO2  |  |
| Output Record<br>Id Ids With Co2e Inventory Record   | Calculator   |                            | PC Ref<br>mber Factor Profiles                                    | Global Warming Potential   | Category Activity Source                                     | se Notes   | Created By   | Created At                          | CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   | CO2<br>Electricity Energy Emissions<br>Equivalent (MMBtu) Factor |  | issions Emissions Emissions   |   | ity Energy Emiss<br>Equivalent Facto                | sions Emissions Factor C<br>or Factor (kg/MMBt E                        | CO2 Emissions<br>Emissions Factor<br>Factor Units   |  |
|  | Calculator   |                            |   |  |  | The above data is pulled<br>from the United States<br>Census Bureau's "On The                          |  | Croated / a                         |   |  |  |   |   |   |   |   |  |
|  |  |                            |   |  |  | Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",                  | S  |                                     |   |  |  |   |   |   |   |   |  |
| 246266 3774020 2019-Baker-Commercial-Elec-Census-EIA   | Emissions from Grid Electricity<br>(USCP Required)   | Scope 2 I.2.               | Florida Power and Ligh<br>2019 (FPL and<br>2 eGRID2018 factors)   | t<br>IPCC 5th Assessment 100<br>Year Values                        | Commercial<br>Energy Activity                                | and the U.S. EIA's "State  |  | 2024 Jan 5<br>07:16pm               | 2019 Baker<br>21801.2809 2.16373615 0.29505493 21940.0551 Commercial Electricity  | 246675 7679 0 08838031   | MT/MMBtu 87                                | 7716E-06 MT/MMBtu 1.1961E   | -06 MT/MMBtu BE 2.1                                   |   |   |   |  |
|  |  | 000002 1.2.                |   |  |  | The above data is pulled<br>from the United States<br>Census Bureau's "On The                          |  | 07.10011                            |   | 240070.7070 0.0000001  |  |   |   |   |   |   |  |
|  |  |                            |   |  |  | Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",                  | S  |                                     |   |  |  |   |   |   |   |   |  |
| 2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA   | Emissions from Stationary Fuel<br>Combustion (USCP Required)                                   |                            | 1   | IPCC 5th Assessment 100<br>Year Values                             | Commercial Source and  | and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.                             |  | 2024 Jan 10                         | 2019 Baker fuel<br>2573.74986 0.242715 0.0048543 2581.83227 Commercial  |  | kg/MMBtu                                   | kg/MMBtu  | kg/MMBtu  | 48543   | 53.02 0.005 0.0001  | 0 kg/MMBtu  |  |
| 240941 3707139 CENSUS-LIA  | Compussion (USCF Required)   | 300pe 1 1.2.               |   | i ear values   | Energy Activity  | The above data is pulled<br>from the United States<br>Census Bureau's "On The                          |  | n 00.30pm                           | 2373.74900 0.242713 0.0040343 2301.03227 Commercial   |  | kg/minibitu                                | Kg/MINIBLU  | kg/inimbtu  | 40040   | 55.02 0.005 0.0001  |   |  |
|  |  |                            |   |  |  | Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",                  | S  |                                     |   |  |  |   |   |   |   |   |  |
| 246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-E   | Emissions from Stationary Fuel   |                            | 4   | IPCC 5th Assessment 100<br>Year Values                             | Commercial Source and  | And the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.                             | cbarsanti@hanson-inc.com                           | 2024 Jan 10                         | 2019 Baker<br>2368.17396 0.40871739 0.04087174 2390.44906 Commercial Fuel   |  |  | kg/MMBtu  | kg/MMBtu  | 37602   | 62.98 0.0108696 0.001087  | 0 kg/MMBtu  |  |
| 240975 3767559 2019-Daker-Commercial-Fuel-LFG-Census-E   |  | Scope 1 1.2.               |   | real values  | Energy Activity  | The above data is pulled<br>from the United States   |  | n 09.45pm                           |   |  | kg/MMBtu                                   | Kg/IVIIVIBLU  | kg/iviivibtu  | 57602   | 02.96 0.0106090 0.001087  | 0 kg/imitiblu   |  |
|  |  |                            |   |  |  | Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County                     | S  |                                     |   |  |  |   |   |   |   |   |  |
| 2019-Baker-Commercial-Fuel-Distillate Fuel C   | •  |                            |   | IPCC 5th Assessment 100  | Commercial Source and  | Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy                          |  | 2024 Jan 10                         | 2019 Baker  |  |  |   |   |   |   |   |  |
| 246976 3787563 Census-EIA  | Combustion (USCP Required)   | Scope 1 I.2.               | 1   | Year Values  | Energy Activity  | Estimates" for Florida.<br>The above data is pulled<br>from the United States                          | cbarsanti@hanson-inc.com                           | n 09:45pm                           | 749.80648 0.11019565 0.00734638 754.838748 Commercial Fuel  |  | kg/MMBtu                                   | kg/MMBtu  | kg/MMBtu  | 10138   | 73.96 0.0108696 0.000725  | 0 kg/MMBtu  |  |
|  |  |                            |   |  |  | Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County                     | S  |                                     |   |  |  |   |   |   |   |   |  |
| 2019-Baker-Commercial-Fuel-Kerosene-   | Emissions from Stationary Fuel   |                            |   | IPCC 5th Assessment 100  | Commercial Source and  | Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy                          |  | 2024 Jan 10                         | 2019 Baker  |  |  |   |   |   |   |   |  |
| 246978 3787591 Census-EIA  | Combustion (USCP Required)   | Scope 1 I.2.               | 1   | Year Values  | Energy Activity  | Estimates" for Florida.<br>The above data is pulled<br>from the United States                          | cbarsanti@hanson-inc.com                           | n 09:46pm                           | 0.4512 6.6667E-05 4.4444E-06 0.45424444 Commercial Fuel   |  | kg/MMBtu                                   | kg/MMBtu  | kg/MMBtu  | 6   | 75.2 0.0111111 0.000741   | 0 kg/MMBtu  |  |
|  |  |                            |   |  |  | Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County                     | S  |                                     |   |  |  |   |   |   |   |   |  |
| 2019-Baker-Commercial-Fuel-Gasoline-Cens   | us- Emissions from Stationary Fuel   |                            |   | IPCC 5th Assessment 100  | Commercial Source and  | Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy                          |  | 2024 Jan 10                         |   |  |  |   |   |   |   |   |  |
| 246979 3787615 EIA   | Combustion (USCP Required)   |                            | 1   | Year Values  | Energy Activity  | Estimates" for Florida.<br>The above data is pulled<br>from the United States                          | cbarsanti@hanson-inc.com                           |                                     | 1497.4415 0.23884 0.01706 1508.64992  |  | kg/MMBtu                                   | kg/MMBtu  | kg/MMBtu  | 21325   | 70.22 0.0112 0.0008   | 0 kg/MMBtu  |  |
|  |  |                            |   |  |  | Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County                     |  |                                     |   |  |  |   |   |   |   |   |  |
| 2019-Baker-Commercial-Fuel-Propane-Censi   | us- Emissions from Stationary Fuel   |                            |   | IPCC 5th Assessment 100  | Commercial Source and  | Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy                          |  | 2024 Jan 10                         | 2019 Baker  |  |  |   |   |   |   |   |  |
| 246981 3787643 EIA<br>Solid Waste  | Combustion (USCP Required)   |                            | 1   | Year Values  | Energy Activity  | Estimates" for Florida.  | cbarsanti@hanson-inc.com                           |                                     | 376.93418 0.0673956 0.00673956 380.60724 Commercial Fuel  |  | kg/MMBtu                                   | kg/MMBtu  | kg/MMBtu  | 6133  | 61.46 0.010989 0.001099   | 0 kg/MMBtu  |  |
|  |  |                            |   |  |  |  |  |                                     |   | Mixed MS1/   | Newspaper Offi                             | Magazine<br>Corrugated hird Class<br>ce Paper Cardboard Mail        | s/T<br>Food Scraps Grass                              | Leaves Brand  | Dimensiona<br>ches I Lumber Mixed                                       | Corrugate Magazine<br>Office d e/Third  | Food nal   |
| Output Record  |  |                            | PC Ref  |  |  |  |  |                                     |   | Emissions<br>Factor (MT<br>Waste Generated CH4/wet               | Emissions Emi<br>Factor (MT Fac<br>CH4/wet | tor (MT Factor (MT Factor (M<br>4/wet CH4/wet                       | T Factor (MT Factor (N<br>CH4/wet                     | AT Factor (MT Factor<br>CH4/wet CL14/               | sions Emissions MSW N<br>or (MT Factor (MT LFG e<br>wet CH4/wet Conturn | Newspap Paper Container Class Mail<br>er LFG LFG s LFG LFG<br>Capture Capture Capture Conture | Scraps Grass Leaves Branches Lumber<br>FG LFG LFG LFG LFG<br>Capture Capture Capture Capture Ovidetion |
| Id Ids With Co2e Inventory Record  | Calculator   | Gpc Scope Nu               |   | Global Warming Potential   | Category Activity Source                                     | ce Notes   | Created By   | Created At                          | CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   | (wet tons) short ton)  | short ton) sho                             | rt ton) short ton) short ton)                                       | short ton) short ton                                  | ) short ton) short                                  | ton) short ton) Rate (%) F  | Rate (%) Rate (%) Rate (%) Rate (%)   | Rate (%) Rate (%) Rate (%) Rate (%) Rate   |
|  |  |                            |   |  |  |  |  |                                     |   |  |  |   |   |   |   |   |  |

| Residential<br>Output Record   |  | GPC  | C Ref  |  |  |  |   |  |   | CO2 CO2<br>Electricity Energy Emissions Emiss  |   | N2O N2O US<br>ns Emissions Emissions Co  | S Energy Bi<br>ommunity Equivalent C  | iogenic Biogenic<br>O2 CO2   |   |  |
|--|--|--|--|--|--|--|---|--|---|--|---|--|---|--|---|--|
| Id Ids With Co2e Inventory Record  | Calculator   |  | nber Factor Profiles<br>Florida Power and Ligh   |  | Category Activity Sourc  |  | Created By  |  | CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   |  | tor Units Factor Factor Units   |  | rotocol (MMBtu) Er  | missions Emissions   |   |  |
| 245552 3760110 2019-Baker-County-Residential-Energy-FPL  | Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel   | Scope 2 I.1.2  |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Residential<br>Energy Activity<br>Residential Source and   | American Community<br>Survey ACSST5Y2019<br>American Community   | inc.com   | 2023 Dec 20<br>01:52pm<br>2024 Jan 4   | 2019 Baker<br>51758.7329 5.13695695 0.70049413 52088.1987 RESIDENTIAL FPL<br>2019 Baker   |  |   | Btu 1.1961E-06 MT/MMBtu BE   |   |  |   |  |
| 246111 3771157 2019-Baker-County-Residential-Fuel-LPG  | Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.1.1  |  | Year Values<br>IPCC 5th Assessment 100   | Energy Activity<br>Residential Source and  | Survey ACSST5Y2019<br>American Community   |   | 09:53pm<br>2024 Jan 4  | 535.527127 0.09242533 0.00924253 540.564308 RESIDENTIAL LPG<br>2019 Baker   | 62.98 kg/MN  | 1MBtu 0.01086957 kg/MMBt  | tu 0.00108696 kg/MMBtu BE  | E.1.2 8503.13   | 0 kg/MMBtu   |   |  |
| 246113 3771199 2019-Baker-County-Residential-Fuel-Fuel Oil   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 I.1.1  |  | Year Values<br>IPCC 5th Assessment 100   | Energy Activity<br>Residential Source and  | Survey ACSST5Y2019   | rvolenec@hanson-inc.com   | 09:54pm<br>2024 Jan 17   | 9.9823812 0.00146707 9.7804E-05 10.0493772 RESIDENTIAL Fuel Oil<br>2019 RESIDENTIAL   |  |   | -  |   | 0 kg/MMBtu   |   |  |
| <ul><li>247895 3801521 2019-Baker-County-Residential-Fuel-Wood</li><li>247896 3801545 2019-Baker-County-Residential-Fuel-NGas</li></ul>  | Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 I.1.1<br>Scope 1 I.1.1   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values  | Energy Activity<br>Residential Source and<br>Energy Activity   | American Community<br>Survey ACSST5Y2019   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com  | 2024 Jan 17  | 0 0.12795156 0.00170062 4.03330851 Baker fuel<br>2019 RESIDENTIAL<br>1216.54125 0.11472475 0.0022945 1220.36158 Baker fuel  | 0 kg/MN<br>53.02 kg/MN   |   |  | 404.91<br>E.1.1 22944.95  | 93.8 kg/MMBtu<br>0 kg/MMBtu  |   |  |
| Transportation   |  |  |  |  |  |  |   |  |   |  |   |  |   |  |   |  |
|  |  |  |  |  |  |  |   |  |   | Fossil Fuel  |   | Biogenic Biogenic<br>CO2 CO2 CH  |   | US   |   |  |
| Output Record<br>Id Ids With Co2e Inventory Record   | Calculator   |  | C Ref<br>nber Factor Profiles  | Global Warming Potential   | Category Activity Sourc  | se Notes   | Created By  | Created At   | CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   | Energy Biofue<br>Equivalent Energ<br>On Road VMT (MMBtu) (MMB  | rgy Emissions Emission  | ns Emissions Emissions Em  | H4 CH4 N2<br>missions Emissions Er<br>actor Factor Units Fa   | 20 N2O Communit E<br>missions Emissions y Protocol E<br>actor Factor Units Reference t   | Equivalen   |  |
|  |  |  |  |  |  | The above data is pulled<br>from Google's  |   |  |   | (  |   |  |   |  |   |  |
|  |  |  | Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) ar                               |  |  | Environmental Insights<br>platform for Baker County<br>and calculated through  |   |  |   |  |   |  |   |  |   |  |
| 246022 2760621 2010 Poker Transportation Coopline CEI  | On Road Transportation (USCP   |  | 2019 US National<br>Defaults (updated  | IPCC 5th Assessment 100  | Transportatio<br>n & Mobile Source and   | ClearPath's guidance<br>documentation and  |   | 2024 Jan 3   | 2019 Baker<br>174683.55 8.31696849 4.52599987 176115.815 transportation Gasoline  | e 426659113.1 2486952.6  |   | 3tu 0.0684136 MT/MMBtu 1   | 1.949E-08 MT/mile   | 1.061E-08 MT/mile TR.1.A   |   |  |
| 246032 3769621 2019-Baker-Transportation-Gasoline-GEI  | Required)  | Scope 1 II.1.1   | 1 2020)  | Year Values  | Sources Activity   | spreadsheet.<br>The above data is pulled<br>from Google's  |   | 06:53pm  | 174063.55 6.31690649 4.52599967 176115.615 transportation Gasoline  | 420039113.1 2400932.0  | 0 0.07024 MT/MMB  | 5tu 0.0664136 W17/WW6tu 1  | 1.949E-08 MIT/Mile  | T.UOTE-UO MIT/IIIIE TR.T.A   |   |  |
|  |  |  | Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) ar                               |  |  | Environmental Insights<br>platform for Baker County<br>and calculated through  |   |  |   |  |   |  |   |  |   |  |
|  | On Road Transportation (USCP   |  | 2019 US National Defaults (updated   | IPCC 5th Assessment 100  | Transportatio<br>n & Mobile Source and   | ClearPath's guidance documentation and   |   | 2024 Jan 4   | 2019 Baker  |  |   |  |   |  |   |  |
| 246126 3771441 2019-Baker-Transportation-Diesel-GEI  | Required)  | Scope 1 II.1.1   | 1 2020)  | Year Values  | Sources Activity   | spreadsheet.<br>Where available  | inc.com   | 10:27pm  | 65008.7867 0.20327156 0.19417586 65065.9349 transportation Diesel   | 44188221.35 879275.6   | 0 0.07393448 MT/MMB   | 3tu 0.07377323 MT/MMBtu  | 4.6E-09 MT/mile   | 4.394E-09 MT/mile TR.2.C   |   |  |
|  |  |  |  |  |  | Sustainability or ESG reports were used to   |   |  |   |  |   |  |   |  |   |  |
|  |  |  |  |  |  | determine Total GHG<br>Emissions in units of Metric<br>Tons of CO2e.   | с   |  |   |  |   |  |   |  |   |  |
|  |  |  |  |  |  | Sustainability or ESG reports were available for   |   |  |   |  |   |  |   |  |   |  |
|  |  |  |  |  |  | the following Railroad<br>Companies and are<br>attached: CSX, Union  |   |  |   |  |   |  |   |  |   |  |
|  |  |  |  |  |  | Pacific, Norfolk Southern.<br>Where Sustainability or ES   | SG  |  |   |  |   |  |   |  |   |  |
|  |  |  |  |  |  | reports were not available<br>the AVG emissions per mile<br>of track and AVG gallons o   | e   |  |   |  |   |  |   |  |   |  |
|  |  |  |  |  |  | diesel per mile of track in th<br>given County was used to   | he  |  |   |  |   |  |   |  |   |  |
|  | Rail Transportation (USCP  |  | Florida Power and Ligh<br>2019 (FPL and  | nt<br>IPCC 5th Assessment 100  | Transportatio n & Mobile Source and  | calculate the total annual gallons Diesel and annual GHG emissions. All data is  |   | 2024 Jan 17  |   |  |   |  |   |  |   |  |
| 247840 3800559 2019-Baker-Rail-Gasoline-FDOT   | Recommended)   | Scope 1 II.2.1   | 1 eGRID2018 factors)   | Year Values  | Sources Activity   | based off the 2019 year.   |   | 04:32pm  | 8261 8261   |  | 0 MT/MMB  | Btu  | 0 MT/MMBtu  | 0 MT/MMBtu   | 165368.1  |  |
| AFOLU  |  |  |  |  |  |  |   |  |   | Canopy<br>Area of  |   |  |   |  |   |  |
|  |  |  |  |  |  |  |   |  |   | Trees US<br>Outside Comm   |   |  |   |  |   |  |
| Output RecordIdIds With Co2eInventory Record   | Calculator<br>Emissions and Removals from  |  | C Ref<br>nber Factor Profiles  | Global Warming Potential<br>IPCC 5th Assessment 100  | Category Activity Sourc  | ce Notes<br>LEARN Report 2016-2019   |   | Created At<br>2024 Jan 4   | CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   | Land Area (hectares Forest Protoc<br>/ year) (hectares) Refere   |   |  |   |  |   |  |
| 246052 3770126 2019-Baker-County-AFOLU-Undisturbed Fore  | est Forests (USCP Recommended)<br>Emissions and Removals from  |  |  | Year Values<br>IPCC 5th Assessment 100   | AFOLU  | (Gainesville reference)<br>LEARN Report 2016-2019  | rvolenec@hanson-inc.com   | 01:59pm<br>2024 Jan 4  | 2019 AFOLU Baker  | 107402   |   |  |   |  |   |  |
| 2460533770130 2019-Baker-AFOLU-Forest to Grassland<br>2019-Baker-County-AFOLU-Non-Forest to2460543770134 Forest  | Forests (USCP Recommended)<br>Emissions and Removals from<br>Forests (USCP Recommended)  | ·  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU  | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com  | 2024 Jan 4   | 2019 AFOLU Baker<br>2019 AFOLU Baker  | 3363<br>7422   |   |  |   |  |   |  |
| 246055 3770138 2019-Baker-AFOLU-Forest to Settlement   | Emissions and Removals from<br>Forests (USCP Recommended)  |  |  | IPCC 5th Assessment 100<br>Year Values   | AFOLU  | LEARN Report 2016-2019<br>(Gainesville reference)  | rvolenec@hanson-inc.com   | 2024 Jan 4   | 2019 AFOLU Baker  | 894  |   |  |   |  |   |  |
| 2019-Baker-County-AFOLU-Forest to Other<br>246056 3770142 Non-Forest   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from   | Scope 1 V.2  |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU  | LEARN Report 2016-2019<br>(Gainesville reference)<br>LEARN Report 2016-2019  | rvolenec@hanson-inc.com   | 2024 Jan 4<br>02:49pm<br>2024 Jan 4  | 2019 AFOLU Baker  | 11   |   |  |   |  |   |  |
| 246057 3770146 2019-Baker-County-AFOLU-Forest to Wetland   |  | Scope 1 V.2  |  | Year Values  | AFOLU  |  | rvolenec@hanson-inc.com   |  | 2019 AFOLU Baker  | 331  |   |  |   |  |   |  |
| 246058 3770152 2019-Baker-County-AFOLU-Outside of Forest   | Trees Outside of Forests (USCP<br>s Recommended)<br>Emissions from Agricultural  | Scope 1 V.2  |  | IPCC 5th Assessment 100<br>Year Values   | AFOLU  | LEARN Report 2016-2019<br>(Gainesville reference)  |   | 2024 Jan 4   |   |  |   |  |   |  |   |  |
|  |  |  |  |  |  | · · · · · · · · · · · · · · · · · · ·  | rvolenec@hanson-inc.com   |  | 2019 AFOLU Baker  | 11149  |   |  |   |  |   |  |
| 247333 3792504 2019-Baker-AFOLU-Enteric Fermentation<br>x2019-Baker-County-AFOLU-Enteric   | Activities (USCP optional)<br>Emissions from Agricultural  | Scope 1 V.1  |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural   | rvolenec@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22  | 0 768 0 21504 2019 AFOLU Baker  | A.1  |   |  |   |  |   |  |
| x2019-Baker-County-AFOLU-Enteric<br>248453 3811195 Fermentation  | Activities (USCP optional)   | Scope 1 V.1<br>Scope 1 V.1   |  | IPCC 5th Assessment 100<br>Year Values   |  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural   | rvolenec@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22  |   |  |   |  |   |  |   |  |
| x2019-Baker-County-AFOLU-Enteric   | Activities (USCP optional)<br>Emissions from Agricultural  |  |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural   | rvolenec@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22  | 0 768 0 21504 2019 AFOLU Baker  | A.1<br>A.1   |   | US<br>N2O N2O Co   |   |  | Biogenic<br>Biogenic CO2  |  |
| x2019-Baker-County-AFOLU-Enteric<br>248453 3811195 Fermentation  | Activities (USCP optional)<br>Emissions from Agricultural  | Scope 1 V.1<br>GPC   |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU Source<br>AFOLU Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com  | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8  | A.1<br>A.1<br>Electricity Energy Emissions Emiss   |   | N2O N2O Co<br>ns Emissions Emissions Pro   | ommunity Energy Er<br>rotocol Equivalent Fa   | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E   |   |  |
| x2019-Baker-County-AFOLU-Enteric<br>248453 3811195 Fermentation<br>Commercial<br>Output Record   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)  | Scope 1 V.1<br>GPC   | C Ref  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLU Source<br>AFOLU Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>ce Notes<br>The above data is pulled<br>from the United States  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By  | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8  | A.1<br>A.1<br>Electricity Energy Emissions Emiss   | 2 CH4 CH4<br>ssions Emissions Emission  | N2O N2O Co<br>ns Emissions Emissions Pro   | ommunity Energy Er<br>rotocol Equivalent Fa   | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor   |  |
| x2019-Baker-County-AFOLU-Enteric<br>248453 3811195 Fermentation<br>Commercial<br>Output Record   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)  | Scope 1 V.1<br>GPC   | C Ref  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLU Source<br>AFOLU Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By  | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8  | A.1<br>A.1<br>Electricity Energy Emissions Emiss   | 2 CH4 CH4<br>ssions Emissions Emission  | N2O N2O Co<br>ns Emissions Emissions Pro   | ommunity Energy Er<br>rotocol Equivalent Fa   | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor   |  |
| x2019-Baker-County-AFOLU-Enteric<br>248453 3811195 Fermentation<br>Commercial<br>Output Record   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator  | Scope 1 V.1<br>GPC   | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential   | AFOLU Source<br>AFOLU Source<br>Category Activity Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By  | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8<br>CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   | A.1<br>A.1<br>Electricity Energy Emissions Emiss   | 2 CH4 CH4<br>ssions Emissions Emission  | N2O N2O Co<br>ns Emissions Emissions Pro   | ommunity Energy Er<br>rotocol Equivalent Fa   | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor   |  |
| x2019-Baker-County-AFOLU-Enteric<br>248453 3811195 Fermentation<br>Commercial<br>Output Record   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)  | Scope 1 V.1<br>GPC   | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and                       | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLU Source<br>AFOLU Source<br>Category Activity Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By  | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8  | A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>Equivalent (MMBtu)<br>Equivalent (MMBtu)   | 2 CH4 CH4<br>ssions Emissions Emission<br>tor Units Factor Factor Un  | N2O N2O Co<br>ns Emissions Emissions Pro   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k  | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor   |  |
| 248453 3811195 Fermentation<br>Commercial<br>Output Record<br>Id Ids With Co2e Inventory Record  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity   | Scope 1 V.1<br>Gpc Scope Num   | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and                       | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential   | AFOLU Source<br>AFOLU Source<br>Category Activity Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>es<br>apolematidis@hanson-<br>inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8<br>CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>2019 Baker   | A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>Equivalent (MMBtu)<br>Equivalent (MMBtu)   | 2 CH4 CH4<br>ssions Emissions Emission<br>tor Units Factor Factor Un  | N2O N2O Co<br>ns Emissions Emissions Pro<br>Inits Factor Factor Units Re   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k  | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor   |  |
| 248453 3811195 Fermentation<br>Commercial<br>Output Record<br>Id Ids With Co2e Inventory Record  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity   | Scope 1 V.1<br>Gpc Scope Num   | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and                       | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential   | AFOLU Source<br>AFOLU Source<br>Category Activity Source   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8<br>CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>2019 Baker   | A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>Equivalent (MMBtu)<br>Equivalent (MMBtu)   | 2 CH4 CH4<br>ssions Emissions Emission<br>tor Units Factor Factor Un  | N2O N2O Co<br>ns Emissions Emissions Pro<br>Inits Factor Factor Units Re   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k  | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor   |  |
| 248453 3811195 Fermentation<br>Commercial<br>d Output Record<br>Id With Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>2019-Baker-Commercial-Fuel-Natural Gas-   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel  | Scope 1 V.1<br>Gpc Scope GPC<br>Num  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8<br>CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>21801.2809 2.16373615 0.29505493 21940.0551 Commercial Electricity<br>2019 Baker fuel  | A.1<br>A.1<br>Electricity Energy CO2<br>Emissions Factor CO2 | 2 CH4 CH4<br>ssions Emissions Emission<br>tor Units Factor Factor Units<br>MMBtu 8.7716E-06 MT/MMB  | N2O N2O Co<br>ns Emissions Emissions Pro<br>Inits Factor Factor Units Re   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k  | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E<br>g/MMBtu) (kg/MMBtu) u) F   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor<br>Factor Units   |  |
| 248453 3811195   Commercial     Output Record   Id Output Record   Id SWith Co2e   246266   3774020 2019-Baker-Commercial-Elec-Census-ElA  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)  | Scope 1 V.1<br>Gpc Scope Num   | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivity  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>es<br>apolematidis@hanson-<br>inc.com<br>es<br>cbarsanti@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8<br>CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>21801.2809 2.16373615 0.29505493 21940.0551 2019 Baker<br>Commercial Electricity   | A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>Equivalent (MMBtu)<br>Equivalent (MMBtu)   | 2 CH4 CH4<br>ssions Emissions Emission<br>tor Units Factor Factor Un<br>MMBtu 8.7716E-06 MT/MMB   | N2O N2O Co<br>ns Emissions Emissions Pro<br>Inits Factor Factor Units Re   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k  | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor   |  |
| 248453 3811195 Fermentation<br>Commercial<br>d Output Record<br>Id With Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>2019-Baker-Commercial-Fuel-Natural Gas-   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel  | Scope 1 V.1<br>Gpc Scope GPC<br>Num  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>cbarsanti@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8<br>CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>21801.2809 2.16373615 0.29505493 21940.0551 Commercial Electricity<br>2019 Baker fuel  | A.1<br>A.1<br>Electricity Energy CO2<br>Emissions Factor CO2 | 2 CH4 CH4<br>ssions Emissions Emission<br>tor Units Factor Factor Units<br>MMBtu 8.7716E-06 MT/MMB  | N2O N2O Co<br>ns Emissions Emissions Pro<br>Inits Factor Factor Units Re   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k  | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E<br>g/MMBtu) (kg/MMBtu) u) F   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor<br>Factor Units   |  |
| 248453 3811195 Fermentation<br>Commercial<br>d Output Record<br>Id With Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>2019-Baker-Commercial-Fuel-Natural Gas-   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel  | Scope 1 V.1<br>Gpc Scope GPC<br>Num  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>cbarsanti@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10   | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8<br>CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>21801.2809 2.16373615 0.29505493 21940.0551 Commercial Electricity<br>2019 Baker fuel  | A.1<br>A.1<br>Electricity Energy CO2<br>Emissions Factor CO2 | 2 CH4 CH4<br>ssions Emissions Emission<br>tor Units Factor Factor Units<br>MMBtu 8.7716E-06 MT/MMB  | N2O N2O Co<br>ns Emissions Emissions Pro<br>Inits Factor Factor Units Re   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k  | O2 CH4 Emissions E<br>missions Emissions Factor C<br>actor Factor (kg/MMBt E<br>g/MMBtu) (kg/MMBtu) u) F   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor<br>Factor Units   |  |
| 248453 3811195 Fermentation<br>Commercial<br>d Output Record<br>Id With Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>2019-Baker-Commercial-Fuel-Natural Gas-   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>es<br>cbarsanti@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm  | 0 768 0 21504 2019 AFOLU Baker<br>0 21503.6 0 602100.8<br>CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>21801.2809 2.16373615 0.29505493 21940.0551 Commercial Electricity<br>2019 Baker fuel  | A.1<br>A.1<br>Electricity Energy CO2<br>Emissions Factor CO2 | 2 CH4 CH4<br>ssions Emissions Emission<br>for Units Factor Factor Units<br>MMBtu 8.7716E-06 MT/MMB  | N2O N2O Co<br>Emissions Emissions Pro<br>Factor Units Re<br>Btu 1.1961E-06 MT/MMBtu BE   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k  | O2 CH4 Emissions E<br>missions Emissions Factor G<br>actor Factor (kg/MMBt E<br>g/MMBtu) (kg/MMBtu) u) F<br>53.02 0.005 0.0001   | Biogenic CO2<br>CO2 Emissions<br>Emissions Factor<br>Factor Units   |  |
| 248453 3811195 Fermentation<br>Commercial<br>d Output Record<br>ld With Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>Activity  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm  | 0       768       0       21504       2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker   | A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>246675.7679 0.08838031 MT/M<br>kg/MA   | 2 CH4 CH4<br>ssions Emissions Emission<br>for Units Factor Factor Units<br>MMBtu 8.7716E-06 MT/MMB  | N2O N2O Co<br>Emissions Emissions Pro<br>Factor Units Re<br>Btu 1.1961E-06 MT/MMBtu BE   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2 CH4 Emissions E<br>missions Emissions Factor G<br>actor Factor (kg/MMBt E<br>g/MMBtu) (kg/MMBtu) u) F<br>53.02 0.005 0.0001   | Biogenic CO2<br>CO2 Emissions<br>Factor<br>Factor Units   |  |
| 248453 3811195 Fermentation<br>Commercial<br>d Output Record<br>ld With Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>Activity  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm  | 0       768       0       21504       2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker   | A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>246675.7679 0.08838031 MT/M<br>kg/MA   | 2 CH4 CH4<br>ssions Emissions Emission<br>for Units Factor Factor Units<br>MMBtu 8.7716E-06 MT/MMB  | N2O N2O Co<br>Emissions Emissions Pro<br>Factor Units Re<br>Btu 1.1961E-06 MT/MMBtu BE   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2 CH4 Emissions E<br>missions Emissions Factor G<br>actor Factor (kg/MMBt E<br>g/MMBtu) (kg/MMBtu) u) F<br>53.02 0.005 0.0001   | Biogenic CO2<br>CO2 Emissions<br>Factor<br>Factor Units   |  |
| 248453 3811195 Fermentation<br>Commercial<br>d Output Record<br>ld With Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>A Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>Activity  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>es<br>cbarsanti@hanson-inc.com<br>es   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm  | 0       768       0       21504       2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker   | A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>246675.7679 0.08838031 MT/M<br>kg/MA   | 2 CH4 CH4<br>ssions Emissions Emission<br>for Units Factor Factor Units<br>MMBtu 8.7716E-06 MT/MMB  | N2O N2O Co<br>Emissions Emissions Pro<br>Factor Units Re<br>Btu 1.1961E-06 MT/MMBtu BE   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2 CH4 Emissions E<br>missions Emissions Factor G<br>actor Factor (kg/MMBt E<br>g/MMBtu) (kg/MMBtu) u) F<br>53.02 0.005 0.0001   | Biogenic CO2<br>CO2 Emissions<br>Factor<br>Factor Units   |  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>d Output Record<br>d ds With Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-E   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>A Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>es<br>cbarsanti@hanson-inc.com<br>es   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm  | 0       768       0       21504       2019       AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019       Baker         2573.74986       0.242715       0.0048543       2581.83227       2019       Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019       Baker  | A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>246675.7679 0.08838031 MT/M<br>kg/MA   | 2 CH4 CH4<br>ssions Emissions Emission<br>for Units Factor Tactor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt   | hits Factor N2O Co<br>Emissions Emissions Factor Units Re<br>Bu 1.1961E-06 MT/MMBtu BE<br>tu kg/MMBtu<br>tu kg/MMBtu   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2CH4EmissionsEmissionsEmissionsFactorCactorFactor(kg/MMBtu)u)Fg/MMBtu)(kg/MMBtu)u)UF53.020.0050.000162.980.01086960.001087  | Biogenic CO2<br>CO2 Emissions<br>Factor Factor<br>Factor Units  |  |
| 248453 3811195 Fermentation<br>Commercial<br>Output Record<br>Id Output Record<br>Id Vith Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-E   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>A Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceAFOLUActivity SourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com                             | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm  | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       Commercial Fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker   | A.1<br>A.1<br>Electricity Energy CO2 Emissions<br>Equivalent (MMBtu) CO2 Emissions<br>246675.7679 0.08838031 MT/M<br>kg/MA   | 2 CH4 CH4<br>ssions Emissions Emission<br>for Units Factor Tactor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt   | hits Factor N2O Co<br>Emissions Emissions Factor Units Re<br>Bu 1.1961E-06 MT/MMBtu BE<br>tu kg/MMBtu<br>tu kg/MMBtu   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2CH4EmissionsEmissionsEmissionsFactorCactorFactor(kg/MMBtu)u)Fg/MMBtu)(kg/MMBtu)u)UF53.020.0050.000162.980.01086960.001087  | Biogenic CO2<br>CO2 Emissions<br>Factor Factor<br>Factor Units  |  |
| 248453 3811195 Fermentation<br>Commercial<br>Output Record<br>Id Output Record<br>Id Vith Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-E   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>A Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceAFOLUActivity SourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>created By<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com  | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm  | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       Commercial Fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker   | A.1<br>A.1<br>Electricity Energy CO2 Emissions<br>Equivalent (MMBtu) CO2 Emissions<br>246675.7679 0.08838031 MT/M<br>kg/MA   | 2 CH4 CH4<br>ssions Emissions Emission<br>for Units Factor Tactor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt   | hits Factor N2O Co<br>Emissions Emissions Factor Units Re<br>Bu 1.1961E-06 MT/MMBtu BE<br>tu kg/MMBtu<br>tu kg/MMBtu   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2CH4EmissionsEmissionsEmissionsFactorCactorFactor(kg/MMBtu)u)Fg/MMBtu)(kg/MMBtu)u)UF53.020.0050.000162.980.01086960.001087  | Biogenic CO2<br>CO2 Emissions<br>Factor Factor<br>Factor Units  |  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>d Output Record<br>ld Output Record<br>ld SWith Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-E<br>246976 2019-Baker-Commercial-Fuel-LPG-Census-E  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                              | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's 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"State<br>Profile and Energy<br>Estimates" for Florida.  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>es<br>cbarsanti@hanson-inc.com<br>es<br>cbarsanti@hanson-inc.com   | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10                           | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker fuel         749.80648       0.11019565       0.00734638       754.838748       2019 Baker fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker  | A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Eactor<br>246675.7679 0.08838031 MT/M<br>kg/MA<br>kg/MA  | 2 CH4 CH4<br>ssions Emissions Emission<br>Factor Units Factor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt<br>MBtu kg/MMBt   | <ul> <li>N2O N2O Co Propries initial Factor Emissions Emissions Emissions Residence of Propries initial Factor Unitial Factor Unitial Residence of Propries initial Factor Unitial Residence of Propries initial Factor Unitial Residence of Propries initial Factor Unitial Factor Unitial Factor Unitial Factor Unitial Factor Unitial Residence of Propries initial Factor Unitial Fac</li></ul> | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2         CH4         Emissions         Factor         C           missions         Factor         (kg/MMBtu)         u)         Factor         Factor           g/MMBtu)         (kg/MMBtu)         u)         U         Factor         Fac   | <ul> <li>Biogenic CO2</li> <li>CO2 Emissions</li> <li>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul>                           |  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>d Output Record<br>ld Output Record<br>ld 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246266 3774020 2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 2019-Baker-Commercial-Fuel-Natural Gas-<br>246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-EIA<br>246975 2019-Baker-Commercial-Fuel-LPG-Census-EIA   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceCategoryActivity SourceCategoryActivityCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity  | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com                             | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10                           | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2609       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker fuel         749.80648       0.11019565       0.00734638       754.838748       2019 Baker fuel  | A.1<br>A.1<br>Electricity Energy CO2 Emissions<br>Equivalent (MMBtu) CO2 Emissions<br>246675.7679 0.08838031 MT/M<br>kg/MA   | 2 CH4 CH4<br>ssions Emissions Emission<br>Factor Units Factor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt<br>MBtu kg/MMBt   | <ul> <li>N2O N2O Co Propries initial Factor Emissions Emissions Emissions Residence of Propries initial Factor Unitial Factor Unitial Residence of Propries initial Factor Unitial Residence of Propries initial Factor Unitial Residence of Propries initial Factor Unitial Factor Unitial Factor Unitial Factor Unitial Factor Unitial Residence of Propries initial Factor Unitial Fac</li></ul> | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2CH4EmissionsEmissionsEmissionsFactorCactorFactor(kg/MMBtu)u)Fg/MMBtu)(kg/MMBtu)u)UF53.020.0050.000162.980.01086960.001087  | <ul> <li>Biogenic CO2</li> <li>CO2 Emissions</li> <li>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul>                           |  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>d Output Record<br>ld Output Record<br>ld SWith Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-E<br>246976 2019-Baker-Commercial-Fuel-LPG-Census-E  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                              | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States   | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>Created By<br>apolematidis@hanson-<br>inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com                             | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10                           | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker fuel         749.80648       0.11019565       0.00734638       754.838748       2019 Baker fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker  | A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Eactor<br>246675.7679 0.08838031 MT/M<br>kg/MA<br>kg/MA  | 2 CH4 CH4<br>ssions Emissions Emission<br>Factor Units Factor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt<br>MBtu kg/MMBt   | <ul> <li>N2O N2O Co Propries initial Factor Emissions Emissions Emissions Residence of Propries initial Factor Unitial Factor Unitial Residence of Propries initial Factor Unitial Residence of Propries initial Factor Unitial Residence of Propries initial Factor Unitial Factor Unitial Factor Unitial Factor Unitial Factor Unitial Residence of Propries initial Factor Unitial Fac</li></ul> | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2         CH4         Emissions         Factor         C           missions         Factor         (kg/MMBtu)         u)         Factor         Factor           g/MMBtu)         (kg/MMBtu)         u)         Factor         Factor <t< td=""><td><ul> <li>Biogenic CO2</li> <li>CO2 Emissions</li> <li>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul></td><td></td></t<> | <ul> <li>Biogenic CO2</li> <li>CO2 Emissions</li> <li>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul>                           |  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-Natural Gas-<br>246976 3787539 2019-Baker-Commercial-Fuel-LPG-Census-EIA<br>246976 3787563 Census-EIA<br>246976 3787563 Census-EIA   | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)CalculatorEmissions from Grid Electricity<br>(USCP Required)Emissions from Stationary Fuel<br>Combustion (USCP Required)MEmissions from Stationary Fuel<br>Combustion (USCP Required)Emissions from Stationary Fuel<br>Combustion (USCP Required) | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                              | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | <ul> <li>IPCC 5th Assessment 100<br/>Year Values</li> <li>IPCC 5th Assessment 100<br/>Year Values</li> <li>Global Warming Potential</li> <li>IPCC 5th Assessment 100<br/>Year Values</li> </ul>  | AFOLUSourceAFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>fro  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com<br>created By<br>apolematidis@hanson-<br>inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com                             | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10<br>09:45pm                | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker fuel         749.80648       0.11019565       0.00734638       754.838748       2019 Baker fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker  | A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Eactor<br>246675.7679 0.08838031 MT/M<br>kg/MA<br>kg/MA  | 2 CH4 CH4<br>ssions Emissions Emission<br>Factor Units Factor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt<br>MBtu kg/MMBt   | <ul> <li>N2O N2O Co Propries initial Factor Emissions Emissions Emissions 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| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>d Output Record<br>ld Output Record<br>ld SWith Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 2019-Baker-Commercial-Fuel-Natural Gas-<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-E<br>246976 2019-Baker-Commercial-Fuel-LPG-Census-E  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)CalculatorEmissions from Grid Electricity<br>(USCP Required)Emissions from Stationary Fuel<br>Combustion (USCP Required)MEmissions from Stationary Fuel<br>Combustion (USCP Required)Emissions from Stationary Fuel<br>Combustion (USCP Required) | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                              | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>2017 USDA Agricultural<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is 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Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10<br>09:45pm                | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker fuel         749.80648       0.11019565       0.00734638       754.838748       2019 Baker fuel         2019 Baker       2019 Baker       2019 Baker       2019 Baker  | A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Eactor<br>246675.7679 0.08838031 MT/M<br>kg/MA<br>kg/MA  | 2 CH4 CH4<br>Emissions Emission<br>Factor Units Factor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt<br>MBtu kg/MMBt  | <ul> <li>N2O N2O Co Prosinits Emissions Factor Units Factor Units</li> <li>Batu 1.1961E-06 MT/MMBtu BE</li> <li>tu kg/MMBtu</li> <li>tu kg/MMBtu</li> <li>tu kg/MMBtu</li> </ul>   | ommunity Energy Er<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543                        | O2         CH4         Emissions         Factor         CM           missions         Factor         Kg/MMBtu)         Factor         CM           g/MMBtu)         (kg/MMBtu)         u)         Factor         Factor           53.02         0.005         0.0001         Factor         Factor           62.98         0.0108696         0.001087         Factor         Factor           73.96         0.0108696         0.000725         Factor         Factor           75.2         0.0111111         0.000741         Factor  | <ul> <li>Biogenic CO2</li> <li>CO2 Emissions</li> <li>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul>                           |  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>d Output Record<br>ld Output Record<br>ld SWith Co2e Inventory Record<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 3787139 Census-EIA<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-Natural Gas-<br>246976 3787539 2019-Baker-Commercial-Fuel-Distillate Fuel O<br>246976 3787563 Census-EIA<br>246976 3787563 Census-EIA  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1Scope 1I.2.1Scope 1I.2.1                  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year ValuesGlobal Warming PotentialIPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile 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10<br>09:45pm<br>2024 Jan 10<br>09:45pm                | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74966       0.242715       0.0048543       2581.83227       2019 Baker fuel         2568.17396       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker         749.80648       0.11019565       0.00734638       754.838748       2019 Baker         0.4512       6.6667E-05       4.444E-06       0.45424444       Commercial Fuel  | A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1   | 2 CH4 CH4<br>Emissions Emission<br>Factor Units Factor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt<br>MBtu kg/MMBt  | <ul> <li>N2O N2O Co Prosinits Emissions Factor Units Factor Units</li> <li>Batu 1.1961E-06 MT/MMBtu BE</li> <li>tu kg/MMBtu</li> <li>tu kg/MMBtu</li> <li>tu kg/MMBtu</li> </ul>   | ommunity Energy Fr<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543<br>37602<br>10138      | O2         CH4         Emissions         Factor         CM           missions         Factor         Factor         (kg/MMBtu)         u)         Factor  | <ul> <li>Biogenic CO2</li> <li>D2 Emissions</li> <li>Factor</li> <li>Factor</li> <li>Units</li> </ul> 0 kg/MMBtu 0 kg/MMBtu 0 kg/MMBtu 0 kg/MMBtu 0 kg/MMBtu        |  |
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    0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74966       0.242715       0.0048543       2581.83227       2019 Baker fuel         2568.17396       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker         749.80648       0.11019565       0.00734638       754.838748       2019 Baker         0.4512       6.6667E-05       4.444E-06       0.45424444       Commercial Fuel  | A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1   | 2 CH4 CH4<br>Emissions Emission<br>Factor Units Factor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt<br>MBtu kg/MMBt  | <ul> <li>N2O N2O Co Prosinits Emissions Factor Units Factor Units</li> <li>Batu 1.1961E-06 MT/MMBtu BE</li> <li>tu kg/MMBtu</li> <li>tu kg/MMBtu</li> <li>tu kg/MMBtu</li> </ul>   | ommunity Energy Fr<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543<br>37602<br>10138      | O2         CH4         Emissions         Factor         CM           missions         Factor         Factor         (kg/MMBtu)         u)         Factor  | <ul> <li>Biogenic CO2</li> <li>D2 Emissions</li> <li>Factor</li> <li>Factor</li> <li>Units</li> </ul> 0 kg/MMBtu 0 kg/MMBtu 0 kg/MMBtu 0 kg/MMBtu 0 kg/MMBtu        |  |
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| Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPC<br>NumScope 2I.2.2Scope 1I.2.1Scope 1I.2.1Scope 1I.2.1                  | C Ref<br>nber Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year ValuesGlobal Warming PotentialIPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year Values | AFOLUSourceAFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | 2017 USDA Agricultural<br>Census<br>2017 USDA 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Baker         2573.74986       0.242715       0.0048543       2581.83227       Commercial Electricity         2368.17396       0.40871739       0.04087174       2390.44906       Commercial Fuel         749.80648       0.11019565       0.00734638       754.838748       Commercial Fuel         0.4512       6.6667E-05       4.444E-06       0.4542444       Commercial Fuel         1497.4415       0.23884       0.01706       1508.64992 | A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1   | 2 CH4 CH4<br>Emissions Emission<br>Factor Units Factor Units<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu kg/MMBt<br>MBtu kg/MMBt  | <ul> <li>N2O N2O Co Prosinits Emissions Factor Units Factor Units</li> <li>Batu 1.1961E-06 MT/MMBtu BE</li> <li>tu kg/MMBtu</li> <li>tu kg/MMBtu</li> <li>tu kg/MMBtu</li> </ul>   | ommunity Energy Fr<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543<br>37602<br>10138      | O2         CH4         Emissions         Factor         CM           missions  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"State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's 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10<br>09:45pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10 | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74966       0.242715       0.0048543       2581.83227       2019 Baker fuel         2568.17396       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker         749.80648       0.11019565       0.00734638       754.838748       2019 Baker         0.4512       6.6667E-05       4.444E-06       0.45424444       Commercial Fuel  | A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1   | 2 CH4 CH4<br>Emissions Emission<br>Factor Di<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu 8.7716E-06 MT/MMB<br>MBtu kg/MMBt<br>MBtu kg/MMBt  | N2O<br>Emissions<br>FactorN2O<br>Emissions<br>Factor UnitsCo<br>Pro<br>Re3tu1.1961E-06MT/MMBtuBEtu   | ommunity Energy Fr<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543<br>37602<br>10138      | O2         CH4         Emissions         Factor         C           missions         Factor         (kg/MMBt)         u)         Factor         C           g/MMBtu)         (kg/MMBtu)         u)         Factor         C         C           53.02         0.005         0.0001         Factor         C         C           62.98         0.0108696         0.001087         Factor         C         C           73.96         0.0108696         0.000725         Factor         C         C           75.2         0.0111111         0.000741         Factor         C         C           70.22         0.0112         0.0008         Factor         C         C  | <ul> <li>Biogenic CO2<br/>Emissions<br/>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul> |  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>Commercial<br>Commercial<br>Cerementation<br>Commercial<br>Commercial-Fuel-Census-EIA<br>C46266 3774020 2019-Baker-Commercial-Fuel-Natural Gas-<br>246341 2019-Baker-Commercial-Fuel-Natural Gas-<br>246975 3787539 2019-Baker-Commercial-Fuel-LPG-Census-EIA<br>246976 3787539 2019-Baker-Commercial-Fuel-Distillate Fuel C<br>246976 3787563 Census-EIA<br>246976 3787563 Census-EIA<br>246978 3787591 Census-EIA<br>246979 3787591 Census-EIA  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 V.1<br>Gpc Scope 2 I.2.2<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1            | C Ref<br>nber Factor Profiles<br>Florida Power and Ligf<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year ValuesGlobal Warming PotentialIPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for 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By<br>apolematidis@hanson-inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com<br>cbarsanti@hanson-inc.com     | 2024 Jan 15<br>04:03pm<br>2024 Jan 22<br>07:20am<br>Created At<br>2024 Jan 5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10 | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker         749.80648       0.11019565       0.00734638       754.838748       2019 Baker         0.4512       6.6667E-05       4.444E-06       0.4542444       2019 Baker         1497.4415       0.23884       0.01706       1508.64992       2019 Baker      | A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1   | 2 CH4 CH4   ssions Emissions Emission   fmissions Emission Factor Units   MMBtu 8.7716E-06 MT/MME   MMBtu 8.7716E-06 MT/MME   MMBtu kg/MMBt kg/MMBt   MMBtu kg/MMBt kg/MMBt   MMBtu kg/MMBt kg/MMBt                       | N2O N2O Co   Inits Emissions Emissions Pro   Bau 1.1961E-06 MT/MMBtu BE   tu   | ommunity Energy Fr<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543<br>37602<br>10138<br>6 | O2         CH4         Emissions         Factor         C           missions         Factor         (kg/MMBt)         u)         Factor         C           g/MMBtu)         (kg/MMBtu)         u)         Factor         C         C           53.02         0.005         0.0001         Factor         C         C           62.98         0.0108696         0.001087         Factor         C         C           73.96         0.0108696         0.000725         C         C         C           75.2         0.0111111         0.000741         C         C         C           70.22         0.0112         0.0008         C         C         C         C   | <ul> <li>Biogenic CO2<br/>Emissions<br/>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul> |  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-Natural Gas-<br>246976 3787539 2019-Baker-Commercial-Fuel-Distillate Fuel C<br>246976 3787563 Census-EIA<br>246978 3787591 Census-EIA<br>246978 3787591 Census-EIA<br>246979 3787591 Census-EIA  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 V.1<br>Gpc Scope 2 I.2.2<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1            | C Ref<br>nber Factor Profiles<br>Florida Power and Ligf<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year ValuesGlobal Warming PotentialIPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year Values   | AFOLUSourceAFOLUSourceAFOLUSourceCategoryActivity SourceCommercial<br>EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural<br>Census (AR5 GWP = 28)<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns 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5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10 | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker         749.80648       0.11019565       0.00734638       754.838748       2019 Baker         0.4512       6.6667E-05       4.444E-06       0.4542444       2019 Baker         1497.4415       0.23884       0.01706       1508.64992       2019 Baker      | Electricity Energy<br>Equivalent (MMBtu)         CO2<br>Emissions         CO2<br>Emissions         CO2<br>Emissions           246675.7679         0.08838031         MT/M           3         4.1         A.1           4         A.1         A.1           246675.7679         0.08838031         MT/M           4         Kg/MA         Kg/MA           6         Kg/MA         Kg/MA           6         Kg/MA         Kg/MA           6         Kg/MA         Kg/MA           6         Kg/MA         Kg/MA  | 2 CH4 CH4<br>ssions Emissions Emission<br>MMBtu 8.7716E-06 MT/MMB<br>MMBtu 8.7716E-06 MT/MMB<br>MBtu kg/MMBt<br>MBtu kg/MMBt<br>MBtu kg/MMBt<br>MBtu kg/MMBt  | N2O     N2O     CO       Inits     Emissions     Emissions     Proprints       Bu     1.1961E-06     MT/MMBtu     BE       tu     Inits     kg/MMBtu     Inits       tu     kg/MMBtu     kg/MMBtu     Inits       tu     kg/MMBtu     Inits     Kg/MMBtu       tu     kg/MMBtu     Inits       tu     kg/MMBtu     Inits   | ommunity Energy Fr<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543<br>37602<br>10138<br>6 | O2         CH4         Emissions         Factor         C           missions         Factor         (kg/MMBt)         u)         Factor         C           g/MMBtu)         (kg/MMBtu)         u)         Factor         C         C           53.02         0.005         0.0001         Factor         C         C           62.98         0.0108696         0.001087         Factor         C         C           73.96         0.0108696         0.000725         C         C         C           75.2         0.0111111         0.000741         C         C         C           70.22         0.0112         0.0008         C         C         C         C   | <ul> <li>Biogenic CO2<br/>Emissions<br/>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul> | Dimensio<br>nai<br>Evances Dumber  |
| 248453 3811195 Fermentation<br>Commercial<br>Commercial<br>246266 3774020 2019-Baker-Commercial-Elec-Census-EIA<br>246941 3787139 Census-EIA<br>246975 3787539 2019-Baker-Commercial-Fuel-Natural Gas-<br>246976 3787539 2019-Baker-Commercial-Fuel-Distillate Fuel C<br>246976 3787563 Census-EIA<br>246978 3787591 Census-EIA<br>246978 3787591 Census-EIA<br>246979 3787591 Census-EIA  | Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.1Gpc ScopeGPCScope 2I.2.1Scope 1I.2.1Scope 1I.2.1Scope 1I.2.1Scope 1I.2.1Scope 1I.2.1 | C Ref<br>nber Factor Profiles<br>Florida Power and Ligf<br>2019 (FPL and<br>eGRID2018 factors) | IPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year ValuesGlobal Warming PotentialIPCC 5th Assessment 100<br>Year ValuesIPCC 5th Assessment 100<br>Year Values   | 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5<br>07:16pm<br>2024 Jan 10<br>08:38pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10<br>09:45pm<br>2024 Jan 10 | 0       768       0       21504 2019 AFOLU Baker         0       21503.6       0       602100.8         CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         21801.2809       2.16373615       0.29505493       21940.0551       2019 Baker         2573.74986       0.242715       0.0048543       2581.83227       2019 Baker fuel         2368.17396       0.40871739       0.04087174       2390.44906       2019 Baker         749.80648       0.11019565       0.00734638       754.838748       2019 Baker         0.4512       6.6667E-05       4.444E-06       0.4542444       2019 Baker         1497.4415       0.23884       0.01706       1508.64992       2019 Baker      | A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1   | 2 CH4 CH4   ssions Emissions Emission   ior Units Factor Factor Units   MMBtu 8.7716E-06 MT/MME   MMBtu 8.7716E-06 MT/MME   MMBtu kg/MMBt kg/MMBt   MMBtu kg/MMBt kg/MMBt   MMBtu kg/MMBt kg/MMBt   MMBtu kg/MMBt kg/MMBt | N2O     N2O     CO       Inits     Emissions     Emissions     Proprints       Bu     1.1961E-06     MT/MMBtu     BE       tu     Inits     kg/MMBtu     Inits       tu     kg/MMBtu     kg/MMBtu     Inits       tu     kg/MMBtu     kg/MMBtu     Inits       tu     kg/MMBtu     Inits     Inits       tu     kg/MMBtu     Inits     Inits       tu     kg/MMBtu     Inits     Inits   | ommunity Energy Fr<br>rotocol Equivalent Fa<br>eference (MMBtu) (k<br>E.2.1<br>48543<br>37602<br>10138<br>6 | O2         CH4         Emissions         Factor         C           missions         Factor         (kg/MMBt)         u)         Factor         C           g/MMBtu)         (kg/MMBtu)         u)         Factor         C         C           53.02         0.005         0.0001         Factor         C         C           62.98         0.0108696         0.001087         Factor         C         C           73.96         0.0108696         0.000725         C         C         C           75.2         0.0111111         0.000741         C         C         C           70.22         0.0112         0.0008         C         C         C         C   | <ul> <li>Biogenic CO2<br/>Emissions<br/>Factor Units</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> <li>O kg/MMBtu</li> </ul> | Dimensio<br>nal<br>Leaves Branches<br>LFG LFG LFG<br>Capture Capture Capture Oxidation<br>Nate (%) Rate (%) Rate (%) |

### Baker County 2019 Detailed Inventory



2019 Baker County Solid Waste Landfill Waste Landfilled Waste (USCP Required, 247155 3790596 Generator Preferred, where applicable) Scope 1 III.1.1 Set

Source: FDEP 2019 Baker County Report for MSW Management, Baker County 2019 Baker MSW Factor IPCC 5th Assessment 100 Management, Baker County2024 Jan 11Census Quick Factsavo@hanson-inc.com07:29pm 212.462851 5948.95982 Solid Waste Source Year Values

### Baker County 2019 Detailed Inventory

| 29272 | 0.0648 | 0.042 | 0.1556 | 0.1048 | 0.0476 | 0.0648 | 0.0228 | 0.026 | 0.058 | 0.0068 | 60 | 59 |
|-------|--------|-------|--------|--------|--------|--------|--------|-------|-------|--------|----|----|
|       |        |       |        |        |        |        |        |       |       |        |    |    |
|       |        |       |        |        |        |        |        |       |       |        |    |    |
|       |        |       |        |        |        |        |        |       |       |        |    |    |

58 54 52 50 39 47 51 57 0.1

### Residential

|                  | Residential  |   |                    |                      |   |   |                                      |                          |   |  |                          |                       |   |   |                             |  |                                 |  | Ε.                      | . <u>.</u> .                                  |           |
|------------------|--|---|--------------------|----------------------|---|---|--------------------------------------|--------------------------|---|--|--------------------------|-----------------------|---|---|-----------------------------|--|---------------------------------|--|-------------------------|---|-----------|
|                  | Putput Record  |   |                    | GPC Re               |   |   |                                      |                          |   |  |                          |                       |   | CO2<br>Electricity Energy Emissions                       | CO2<br>Emissions            | CH4 CH4<br>Emissions Emissions             | N2O N2O<br>Emissions Emiss      |  | ergy CO<br>uivalent Emi | issions Emissions                             |           |
| ld lo<br>246093  | Is With Co2e Inventory Record<br>3770808 2019-Clay-County-Residential-Energy                           | Calculator<br>Emissions from Grid Electricity<br>(USCP Required)              | Gpc Sco<br>Scope 2 | ppe Number           |   | Global Warming Potential<br>DIPCC 5th Assessment 100<br>Year Values |                                      | Activity Sour            | ce Notes<br>American Community Surv<br>ACSST5Y2019                                    | Created By<br>ey<br>rvolenec@hanson-inc.com        | 2024 Jan 4               |                       | N2O (MT) CO2e (MT) Tags<br>2019 Clay<br>4.08278776 504179.378 RESIDENTIAL           | Equivalent (MMBtu) Factor<br>FPL 4388588.766 0.114432     | Factor Units                | Factor Factor Units<br>7.3096E-06 MT/MMBtu |                                 | Υ.                                       | /IBtu) Fac              | ctor Factor Units                             |           |
| 246093           | 3801569 2019-Clay-County-Residential-Energy  | Emissions from Stationary Fuel<br>Combustion (USCP Required)                  | Scope 2            |                      | 2019  | IPCC 5th Assessment 100<br>Year Values                              | Energy<br>Residential<br>Energy      | Source and<br>Activity   | Accss1512019<br>American Community Surv<br>ACSST5Y2019                                |  | 2024 Jan 17              |                       | 4.08278776 504179.378 RESIDENTIAL<br>2019 RESIDEN<br>0.01719428 9145.0336 Clay Fuel | ΓIAL  | 02 kg/MMBtu                 | 0.005 kg/MMBtu                             | 9.3032E-07 MT/M<br>0.0001 kg/MN |  | 1942.76                 | 0 kg/MMBtu                                    |           |
| 247898           | 3801593 2019-Clay-County-Residential-Fuel-FuelOil  | Emissions from Stationary Fuel<br>Combustion (USCP Required)                  |                    |                      |   | IPCC 5th Assessment 100<br>Year Values                              | Residential<br>Energy                | Source and<br>Activity   | American Community Surv<br>ACSST5Y2019  |  | 2024 Jan 17              |                       | 2019 RESIDEN<br>0.00073292 75.3074132 Clay Fuel                                     | ΓIAL  | 96 kg/MMBtu                 | 0.01086957 kg/MMBtu                        | 0.00072464 kg/MN                |  | 1011.43                 | 0 kg/MMBtu                                    |           |
| 247899           | 3801617 2019-Clay-County-Residential-Fuel-Wood   | Emissions from Stationary Fuel<br>Combustion (USCP Required)                  | Scope 1            | I.1.1                |   | IPCC 5th Assessment 100<br>Year Values                              | Residential<br>Energy                | Source and Activity      | American Community Surverse ACSST5Y2019   |  | 2024 Jan 17              | 0 0.95883248          | 2019 RESIDEN<br>0.01274398 30.2244631 Clay Fuel                                     |   | 0 kg/MMBtu                  | 0.316 kg/MMBtu                             | -                               |  | 3034.28                 | 93.8 kg/MMBtu                                 |           |
| 247900           | 3801641 2019-Clay-County-Residential-Fuel-LPG  | Emissions from Stationary Fuel<br>Combustion (USCP Required)                  | Scope 1            | I.1.1                |   | IPCC 5th Assessment 100<br>Year Values                              | Residential<br>Energy                | Source and<br>Activity   | American Community Surv<br>ACSST5Y2019  | ey<br>rvolenec@hanson-inc.com                      | 2024 Jan 17<br>08:40pm   | 4013.08308 0.69260826 | 2019 RESIDEN<br>0.06926083 4050.83023 Clay Fuel                                     |   | 98 kg/MMBtu                 | 0.01086957 kg/MMBtu                        | 0.00108696 kg/MN                | 1Btu BE.1.2 6                            | 3719.96                 | 0 kg/MMBtu                                    |           |
|                  | Transportation   |   |                    |                      |   |   |                                      |                          |   |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          |   |  |                          |                       |   | Fossil Fue  | I                           |  | Biogenic Bioge                  | nic                                      |                         | US  |           |
|                  | Putput Record  | Onlastation   | 00                 | GPC Re               |   |   | Osta                                 |                          | Notes   |  |                          |                       |   | Energy<br>Equivalent                                      | Biofuel<br>Energy           | CO2 CO2<br>Emissions Emissions             | CO2 CO2<br>Emissions Emiss      |  | issions Emi             | issions Emissions y Protocol                  | Εqu       |
| 10 10            | Is With Co2e Inventory Record  | Calculator  | Gpc Sco            | pe Number            | Factor Profiles   | Global Warming Potential  | Category                             | Activity Sour            | The above data is pulled  | Created By   | Created At               | CO2 (MT) CH4 (MT)     | N2O (MT) CO2e (MT) Tags   | On Road VMT (MMBtu)                                       | (MMBtu)                     | Factor Factor Units                        | s Factor Facto                  | r Units Factor Fact                      | tor Units Fac           | ctor Factor Units Reference                   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | from Google's Environmen<br>Insights platform for Clay                                | tal  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      | FRCC All (FRCC) eGRII<br>2019 and 2019 US               |   | Transportat                          |                          | County and calculated through ClearPath's   |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
| 246036           | 3769745 2019-Clay-Transportation-Gasoline-GEI  | On Road Transportation (USCP Required)  | Scope 1            | II.1.1               | National Defaults (updated 2020)                        | IPCC 5th Assessment 100<br>Year Values                              | n & Mobile<br>Sources                | Source and<br>Activity   | guidance documentation an spreadsheet.  | nd<br>mcoalson@hanson-inc.cor                      | 2024 Jan 3<br>n 09:21pm  | 589532.777 28.0686162 | 2019 Gasoline<br>15.2746224 594366.473 transportation C                             | lay 1439915385 8393120                                    | ).4 (                       | 0 0.07024 MT/MMBtu                         | 0.0684136 MT/M                  | MBtu 1.949E-08 MT/                       | /mile 1.                | .061E-08 MT/mile TR.1.A                       |           |
|                  |  |   |                    |                      |   |   |                                      |                          | The above data is pulled from Google's Environmen                                     | tal  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      | FRCC All (FRCC) eGRI                                    | D   | Troposorettet                        |                          | Insights platform for Clay<br>County and calculated                                   |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
| 246127           | 3771466 2019-Clay-Transportation-Diesel-GEI  | On Road Transportation (USCP Required)  | Scope 1            | II.1.1               | 2019 and 2019 US<br>National Defaults<br>(updated 2020) | IPCC 5th Assessment 100<br>Year Values                              | Transportat<br>n & Mobile<br>Sources |                          | through ClearPath's<br>guidance documentation ar<br>spreadsheet.                      | nd<br>mcoalson@hanson-inc.cor                      | 2024 Jan 4<br>n 10:45pm  | 219395.647 0.68601336 | 2019 Clay<br>0.65531662 219588.514 transportation E                                 | iesel 149129124 2967433.                                  | 31 (                        | 0 0.07393448 MT/MMBtu                      | 0.07377323 MT/M                 | MBtu 4.6E-09 MT/                         | /mile 4.                | .394E-09 MT/mile TR.2.C                       |           |
| 210121           |  | (oquiou)  | 00000              |                      | (4944164 2020)  |   |                                      | , convery                |   |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Where available<br>Sustainability or ESG  |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | reports were used to<br>determine Total GHG<br>Emissions in units of Metric           | ~  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Tons of CO2e. Sustainabili<br>or ESG reports were                                     |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | available for the following<br>Railroad Companies and a                               | re   |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | attached: CSX, Union<br>Pacific, Norfolk Southern.                                    | 0  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Where Sustainability or ES<br>reports were not available<br>the AVG emissions per mil |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | of track and AVG gallons of<br>diesel per mile of track in                            | of   |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | the given County was used<br>to calculate the total annua                             | 1  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
| 247842           | 3800605 2019-Clay-Rail-Diesel-FDOT   | Rail Transportation (USCP<br>Recommended)                                     | Scope 1            | II.2.1               | FRCC All (FRCC) eGRII<br>2019                           | D IPCC 5th Assessment 100<br>Year Values                            | Transportat<br>n & Mobile<br>Sources |                          | gallons Diesel and annual<br>GHG emissions. All data is<br>based off the 2019 year.   | mcoalson@hanson-inc.cor                            | 2024 Jan 17              | 6140                  | 6140 2019 Clay Rail   | Diesel  |                             | 0 MT/MMBtu                                 |                                 | 0 MT/                                    | /MMBtu                  | 0 MT/MMBtu                                    | 11        |
| 247042           | AFOLU  | Keconiniended)  | Scope 1            | 11.2.1               | 2019  | i cai values  | Sources                              | Activity                 | based on the 2019 year.   | mcoalson@hanson-inc.cor                            | n 05.4 ipin              | 0140                  |   | JE361   |                             |  |                                 | 0 1017                                   | NVIIVIBLU               |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          |   |  |                          |                       |   | Canopy<br>Area of   |                             |  |                                 |  |                         |   |           |
|                  | utput Record   |   |                    |                      |   |   |                                      |                          |   |  |                          |                       |   | Trees<br>Outside  | US<br>Community<br>Brotocol |  |                                 |  |                         |   |           |
|                  | output Record<br>Is With Co2e Inventory Record   | Calculator<br>Emissions and Removals from                                     | Gpc Sco            | GPC Re<br>ope Number |   | Global Warming Potential<br>IPCC 5th Assessment 100                 | Category                             | Activity Sour            | ce Notes<br>LEARN Report 2016-2019  | Created By   | Created At<br>2024 Jan 5 | CO2 (MT) CH4 (MT)     | N2O (MT) CO2e (MT) Tags   | Land Area (hectares Forest<br>/ year) (hectares)          | Protocol<br>Reference       |  |                                 |  |                         |   |           |
| 246267           | 3774039 2019-Clay-County-AFOLU-Undisturbed Forest  | t Forests (USCP Recommended)<br>Emissions and Removals from                   | ·                  | V.2                  |   | Year Values<br>IPCC 5th Assessment 100                              | AFOLU                                |                          | (Gainesville reference)<br>LEARN Report 2016-2019                                     |  | 07:25pm<br>2024 Jan 5    |                       | 2019,AFOLU,C  |   |                             |  |                                 |  |                         |   |           |
| 246268           | 3774043 2019-Clay-County-AFOLU-Forest to Grasslan  | Emissions and Removals from   |                    |                      |   | Year Values<br>IPCC 5th Assessment 100                              |                                      |                          | (Gainesville reference)<br>LEARN Report 2016-2019                                     |  | 2024 Jan 5               |                       | 2019 AFOLU C  |   |                             |  |                                 |  |                         |   |           |
| 246269<br>246279 | 3774047 2019-Clay-County-AFOLU-Non-Forest to Fore<br>3774261 2019-Clay-County-AFOLU-Forest to Settleme | Emissions and Removals from   |                    |                      |   | Year Values<br>IPCC 5th Assessment 100<br>Year Values               | AFOLU<br>AFOLU                       |                          | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)          | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com | 2024 Jan 5               |                       | 2019,AFOLU,C<br>2019,AFOLU,C  |   |                             |  |                                 |  |                         |   |           |
| 246280           | 2019-Clay-County-AFOLU-Forest to Other No<br>3774265 Forest  | · · · · · · · · · · · · · · · · · · ·   | •                  |                      |   | IPCC 5th Assessment 100<br>Year Values                              | AFOLU                                |                          | (Gainesville reference)<br>(Gainesville reference)                                    |  | 2024 Jan 5               |                       | 2019,AFOLU,C  |   |                             |  |                                 |  |                         |   |           |
| 246281           | 3774269 2019-Clay-County-AFOLU-Forest to Wetland   | Emissions and Removals from<br>Forests (USCP Recommended)                     | Scope 1            | V.2                  |   | IPCC 5th Assessment 100<br>Year Values                              | AFOLU                                |                          | LEARN Report 2016-2019<br>(Gainesville reference)                                     | rvolenec@hanson-inc.com                            | 2024 Jan 5<br>08:27pm    |                       | 2019,AFOLU,C  |   |                             |  |                                 |  |                         |   |           |
| 246283           | 3774303 2019-Clay-County-AFOLU-Outside of Forests  | Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended) | Scope 1            | V.2                  |   | IPCC 5th Assessment 100<br>Year Values                              | AFOLU                                |                          | LEARN Report 2016-2019<br>(Gainesville reference)                                     | rvolenec@hanson-inc.com                            | 2024 Jan 5               |                       | 2019 AFOLU C  | ay 130  | 01                          |  |                                 |  |                         |   |           |
| 240205           | 3799793 2019-Clay-County-AFOLU-Enteric Fermentation  | Emissions from Agricultural   | Scope 1            |                      |   | IPCC 5th Assessment 100<br>Year Values                              | AFOLU                                | Source                   | 2017 USDA Agricultural<br>Census  | rvolenec@hanson-inc.com                            | 2024 Jan 16              | 0 718.97              |   |   | A.1                         |  |                                 |  |                         |   |           |
| 248454           | x2019-Clay-County-AFOLU-Enteric<br>3811209 Fermentation  | Emissions from Agricultural<br>Activities (USCP optional)                     | Scope 1            |                      |   | IPCC 5th Assessment 100<br>Year Values                              | AFOLU                                | Source                   | 2017 USDA Agricultural<br>Census (AR5 GWP = 28)                                       |  | 2024 Jan 22              | 0 20131.3             |   |   | A.1                         |  |                                 |  |                         |   |           |
|                  | Commercial   |   |                    |                      |   |   |                                      |                          |   |  |                          |                       |   |   |                             |  |                                 |  |                         | N2O   |           |
|                  |  |   |                    |                      |   |   |                                      |                          |   |  |                          |                       |   | CO2   | CO2                         | CH4 CH4                                    | N2O N2O                         | US<br>Community Ene                      | CO.<br>ergy Emi         | 2 CH4 Emissions                               | Bio<br>CO |
|                  | output Record<br>Is With Co2e Inventory Record   | Calculator  | Gpc Sco            | GPC Re<br>ope Number | ef<br>Factor Profiles                                   | Global Warming Potential  | Category                             | Activity Sour            |   | Created By   | Created At               | CO2 (MT) CH4 (MT)     | N2O (MT) CO2e (MT) Tags   | Electricity Energy Emissions<br>Equivalent (MMBtu) Factor | Emissions<br>Factor Units   | Emissions Emissions<br>Factor Factor Units | Emissions Emiss                 | ions Protocol Equ<br>Units Reference (MM |                         | ctor Factor (kg/MMBt<br>/MMBtu) (kg/MMBtu) u) | Em<br>Fac |
|                  |  |   |                    |                      |   |   |                                      |                          | The above data is pulled<br>from the United States<br>Census Bureau's "On The         |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Map" tool, the United State<br>Census Bureau's "County                                |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Business Patterns Tables" and the U.S. EIA's "State                                   | ,  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
| 246912           | 3786596 2019-Clay-Commercial-Elec-Census-EIA   | Emissions from Grid Electricity (USCP Required)                               | Scope 2            | 1.2.2                | FRCC All (FRCC) eGRII<br>2019                           | D IPCC 5th Assessment 100<br>Year Values                            | Commercial<br>Energy                 | l<br>Activity            | Profile and Energy<br>Estimates" for Florida.   | cbarsanti@hanson-inc.con                           | 2024 Jan 10<br>n 07:27pm |                       | 2019 Clay Com<br>1.99906515 246862.556 Electricity                                  | nercial<br>2148795.222 0.114432                           | 97 MT/MMBtu                 | 7.3096E-06 MT/MMBtu                        | 9.3032E-07 MT/M                 | MBtu BE.2.1                              |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | The above data is pulled<br>from the United States<br>Census Bureau's "On The         |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Map" tool, the United State<br>Census Bureau's "County                                |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Business Patterns Tables" and the U.S. EIA's "State                                   | ,  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
| 246935           | 2019-Clay-Commercial-Fuel-Natural Gas-<br>3787015 Census-EIA   | Emissions from Stationary Fuel<br>Combustion (USCP Required)                  | Scope 1            | I.2.1                |   | IPCC 5th Assessment 100<br>Year Values                              | Commercia<br>Energy                  | I Source and<br>Activity | Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled             | cbarsanti@hanson-inc.con                           | 2024 Jan 10<br>n 08:32pm |                       | 2019 Clay Com<br>0.0422854 22490.1243 fuel  | nercial   | kg/MMBtu                    | kg/MMBtu                                   | kg/MN                           | 1Btu                                     | 422854                  | 53.02 0.005 0.0001                            |           |
|                  |  |   |                    |                      |   |   |                                      |                          | from the United States<br>Census Bureau's "On The                                     |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Map" tool, the United State<br>Census Bureau's "County                                |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  | Emissions from Stationany Fuel  |                    |                      |   | IDCC 5th Assessment 100   | Commercia                            |                          | Business Patterns Tables"<br>and the U.S. EIA's "State                                | ,  | 2024 Jan 11              |                       | 2010 Clay Com   | moreiol   |                             |  |                                 |  |                         |   |           |
| 247096           | 3789260 2019-Clay-Commercial-Fuel-LPG-Census-EIA   | Emissions from Stationary Fuel<br>Combustion (USCP Required)                  | Scope 1            | I.2.1                |   | IPCC 5th Assessment 100<br>Year Values                              | Energy                               | I Source and<br>Activity | Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled             | cbarsanti@hanson-inc.con                           | 2024 Jan 11<br>n 01:36pm | 20629.3509 3.56036957 | 2019 Clay Com<br>0.35603696 20823.3911 fuel   | nercial   | kg/MMBtu                    | kg/MMBtu                                   | kg/MN                           | 1Btu                                     | 327554                  | 62.98 0.0108696 0.001087                      |           |
|                  |  |   |                    |                      |   |   |                                      |                          | from the United States<br>Census Bureau's "On The                                     |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Map" tool, the United State<br>Census Bureau's "County                                | es   |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  | 2010 Clay Commercial Eyel Distillate Eyel Oil  | Emissions from Stationany Eucl  |                    |                      |   | IPCC 5th Accordment 100   | Commorcio                            |                          | Business Patterns Tables"<br>and the U.S. EIA's "State                                | ,  | 2024 Jap 11              |                       | 2010 Clay Com   | moreial   |                             |  |                                 |  |                         |   |           |
| 247097           | 2019-Clay-Commercial-Fuel-Distillate Fuel Oil-<br>3789284 Census-EIA                                   | Combustion (USCP Required)  | Scope 1            | I.2.1                |   | IPCC 5th Assessment 100<br>Year Values                              | Energy                               | Activity                 | Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled             | cbarsanti@hanson-inc.con                           | 2024 Jan 11<br>n 01:36pm | 6531.48156 0.95990217 | 2019 Clay Com<br>0.06399348 6575.31709 fuel   | nercial   | kg/MMBtu                    | kg/MMBtu                                   | kg/MN                           | 1Btu                                     | 88311                   | 73.96 0.0108696 0.000725                      |           |
|                  |  |   |                    |                      |   |   |                                      |                          | from the United States<br>Census Bureau's "On The                                     |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Map" tool, the United State<br>Census Bureau's "County                                |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  | 2019-Clay-Commercial-Fuel-Kerosene-Census  | - Emissions from Stationany Eucl  |                    |                      |   | IPCC 5th Assessment 100   | Commorcia                            |                          | Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy          |  | 2024 Jan 11              |                       | 2019 Clay Com   | morcial   |                             |  |                                 |  |                         |   |           |
| 247098           | 3789308 EIA  | Combustion (USCP Required)  |                    | I.2.1                |   | IPCC 5th Assessment 100<br>Year Values                              | Energy                               | I Source and<br>Activity | Estimates" for Florida.<br>The above data is pulled                                   | cbarsanti@hanson-inc.con                           |                          | 3.9104 0.00057778     | 3.8519E-05 3.93678519 fuel  | nercial   | kg/MMBtu                    | kg/MMBtu                                   | kg/MN                           | /Btu                                     | 52                      | 75.2 0.0111111 0.000741                       |           |
|                  |  |   |                    |                      |   |   |                                      |                          | from the United States<br>Census Bureau's "On The                                     |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Map" tool, the United State<br>Census Bureau's "County<br>Business Batterns Tables"   |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  | 2019-Clay-Commercial-Fuel-Gasoline-Census  | - Emissions from Stationary Evol  |                    |                      |   | IPCC 5th Assessment 100   | Commercia                            | I Source and             | Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy          | ,  | 2024 Jan 11              |                       | 2019 Clay Com   | mercial   |                             |  |                                 |  |                         |   |           |
| 247099           | 3789332 EIA  | Combustion (USCP Required)  | Scope 1            | I.2.1                |   | Year Values   | Energy                               | Activity                 | Estimates" for Florida.<br>The above data is pulled                                   | cbarsanti@hanson-inc.con                           |                          | 13044.2076 2.0805344  | 0.1486096 13141.8441 fuel   |   | kg/MMBtu                    | kg/MMBtu                                   | kg/MN                           | 1Btu                                     | 185762                  | 70.22 0.0112 0.0008                           |           |
|                  |  |   |                    |                      |   |   |                                      |                          | from the United States<br>Census Bureau's "On The                                     |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          | Map" tool, the United State<br>Census Bureau's "County                                | es   |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  |  |   |                    |                      |   |   |                                      |                          |   |  |                          |                       |   |   |                             |  |                                 |  |                         |   |           |
|                  | 2019-Clay-Commercial-Fuel-Propane-Census-  | - Emissions from Stationary Fuel  |                    |                      |   | IPCC 5th Assessment 100   | Commercial                           | I Source and             | Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy          |  | 2024 Jan 11              |                       | 2019 Clay Com   | nercial   |                             |  |                                 |  |                         |   |           |
| 247100           | 3789356 EIA  | - Emissions from Stationary Fuel<br>Combustion (USCP Required)                | Scope 1            | I.2.1                |   | IPCC 5th Assessment 100<br>Year Values                              | Commercia<br>Energy                  | I Source and<br>Activity | Business Patterns Tables" and the U.S. EIA's "State                                   |  |                          | 3283.37758 0.58706593 | 2019 Clay Com<br>0.05870659 3315.37267 fuel   | nercial   | kg/MMBtu                    | kg/MMBtu                                   | kg/MN                           | 1Btu                                     | 53423                   | 61.46 0.010989 0.001099                       |           |
| 247100           |  |   |                    | I.2.1                |   |   |                                      |                          | Business Patterns Tables"<br>and the U.S. EIA's "State<br>Profile and Energy          |  |                          | 3283.37758 0.58706593 |   | nercial   | kg/MMBtu                    | kg/MMBtu                                   | kg/MN                           | 1Btu                                     | 53423                   | 61.46 0.010989 0.001099                       |           |

|                  | Residential  |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|------------------|--|--|---------|---------------------|--|---|-------------------------------------|------------------------------------|---|--|--------------------------|--|---|---|------------------------------|---|----------------------------|---|------------------------|---|-----------------------------|
| C                | Dutput Record  |  |         | GPC Re              | ef   |   |                                     |                                    |   |  |                          |  |   | CO2<br>Electricity Energy Emissions                       | CO2<br>Emissions             | CH4 CH4<br>Emissions Emissions                        | N2O N2O<br>Emissions Emiss |   | Energy CO              | ogenic Biogenic<br>D2 CO2<br>nissions Emissions |                             |
| ld lo            | ds With Co2e Inventory Record  | Calculator<br>Emissions from Grid Electricity  | Gpc Sco | pe Number           | r Factor Profiles<br>FRCC All (FRCC) eGRII                     | Global Warming Potential<br>D IPCC 5th Assessment 100 | Category<br>Residential             | Activity Sourc                     | American Community S  |  | 2024 Jan 4               | CO2 (MT) CH4 (MT) N2O (MT) CO2e  | 2019 Clay                                 | Equivalent (MMBtu) Factor                                 | Factor Units                 | Factor Factor Units                                   | s Factor Facto             | or Units Reference                        | (MMBtu) Fa             | actor Factor Units                              |                             |
| 246093<br>247897 | 3770808 2019-Clay-County-Residential-Energy 3801569 2019-Clay-County-Residential-Fuel-NGas             | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)          | Scope 2 | I.1.2<br>I.1.1      | 2019   | Year Values<br>IPCC 5th Assessment 100<br>Year Values | Energy<br>Residential<br>Energy     | Activity<br>Source and<br>Activity | ACSST5Y2019<br>American Community S<br>ACSST5Y2019                            | rvolenec@hanson-inc.cor<br>Survey<br>rvolenec@hanson-inc.cor | 2024 Jan 17              | 502199.226 32.0790467 4.08278776 50417<br>9116.40514 0.8597138 0.01719428 9145 | 2019 RESIDENTIAL                          |   | 297 MT/MMBtu<br>.02 kg/MMBtu | 7.3096E-06 MT/MMBtu<br>0.005 kg/MMBtu                 |                            |   | 171942.76              | 0 kg/MMBtu                                      |                             |
| 247898           | 3801593 2019-Clay-County-Residential-Fuel-FuelOil  | Emissions from Stationary Fuel<br>Combustion (USCP Required)                             | ·       | I.1.1               |  | IPCC 5th Assessment 100<br>Year Values                | Residential<br>Energy               | Source and<br>Activity             | American Community S<br>ACSST5Y2019   |  | 2024 Jan 17              | 74.8053628 0.0109938 0.00073292 75.30  | 2019 RESIDENTIAL                          |   | .96 kg/MMBtu                 | 0.01086957 kg/MMBtu                                   | 0.00072464 kg/M            |   | 1011.43                | 0 kg/MMBtu                                      |                             |
| 247899           | 3801617 2019-Clay-County-Residential-Fuel-Wood   | Emissions from Stationary Fuel<br>Combustion (USCP Required)                             |         | I.1.1               |  | IPCC 5th Assessment 100<br>Year Values                | Residential<br>Energy               | Source and Activity                | American Community S<br>ACSST5Y2019   | Survey<br>rvolenec@hanson-inc.cor                            | 2024 Jan 17<br>m 08:37pm | 0 0.95883248 0.01274398 30.22  | -   |   | 0 kg/MMBtu                   | 0.316 kg/MMBtu  | -                          | MBtu BE.1.2                               | 3034.28                | 93.8 kg/MMBtu                                   |                             |
| 247900           | 3801641 2019-Clay-County-Residential-Fuel-LPG  | Emissions from Stationary Fuel<br>Combustion (USCP Required)                             | Scope 1 | I.1.1               |  | IPCC 5th Assessment 100<br>Year Values                | Residential<br>Energy               | Source and<br>Activity             | American Community S<br>ACSST5Y2019   | urvey<br>rvolenec@hanson-inc.cor                             | 2024 Jan 17<br>m 08:40pm | 4013.08308 0.69260826 0.06926083 4050.   | 2019 RESIDENTIAL<br>83023 Clay Fuel       | 62  | .98 kg/MMBtu                 | 0.01086957 kg/MMBtu                                   | 0.00108696 kg/M            | MBtu BE.1.2                               | 63719.96               | 0 kg/MMBtu                                      |                             |
|                  | Transportation   |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   | Fossil Fue  |                              |   | Biogenic Bioge             |   |                        | US  |                             |
|                  | Dutput Record<br>ds With Co2e Inventory Record   | Calculator   | Gpc Sco | GPC Re              | ef<br>r Factor Profiles  | Global Warming Potential                              | Category                            | Activity Sourc                     | ce Notes  | Created By   | Created At               | CO2 (MT) CH4 (MT) N2O (MT) CO2e (  | (MT) Tags                                 | Energy<br>Equivalen<br>On Road VMT (MMBtu)                | •••                          | CO2 CO2<br>Emissions Emissions<br>Factor Factor Units |                            | CH4<br>sions Emissions<br>or Units Factor |                        | nissions Emissions y F                          | ommunit Ene<br>Protocol Equ |
|                  |  | Calculator   | 900 300 | pe number           | i racio riones   | Global Warning Fotentia                               | Calegory                            | Activity Source                    | The above data is pulle   | -  | Cleated At               |  | (WIT) Tays                                |   | (IVIIVID(U)                  |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  | _   |                                     |                                    | from Google's Environm<br>Insights platform for Cla                           | ау   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  | On Road Transportation (USCP   |         |                     | FRCC All (FRCC) eGRII<br>2019 and 2019 US<br>National Defaults | D<br>IPCC 5th Assessment 100                          | Transporta<br>n & Mobile            | tio<br>Source and                  | County and calculated<br>through ClearPath's                                  |  | 2024 Jan 3               |  | 2019 Gasoline                             |   |                              |   |                            |   |                        |   |                             |
| 246036           | 3769745 2019-Clay-Transportation-Gasoline-GEI  | Required)  | Scope 1 | II.1.1              | (updated 2020)   | Year Values   | Sources                             | Activity                           | guidance documentation spreadsheet.   | mcoalson@hanson-inc.co                                       |                          | 589532.777 28.0686162 15.2746224 59436   |   | 1439915385 839312   | 0.4 0                        | 0.07024 MT/MMBtu                                      | 0.0684136 MT/N             | 1MBtu 1.949E-0                            | 8 MT/mile              | 1.061E-08 MT/mile TF                            | ₹.1.A                       |
|                  |  |  |         |                     |  |   |                                     |                                    | The above data is pulled from Google's Environm                               | nental   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     | FRCC All (FRCC) eGRII<br>2019 and 2019 US                      | D   | Transporta                          | tio                                | Insights platform for Cla<br>County and calculated<br>through ClearPath's     |  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
| 246127           | 3771466 2019-Clay-Transportation-Diesel-GEI  | On Road Transportation (USCP Required)   | Scope 1 | II.1.1              | National Defaults<br>(updated 2020)                            | IPCC 5th Assessment 100<br>Year Values                | n & Mobile<br>Sources               |                                    | guidance documentation spreadsheet.   | n and<br>mcoalson@hanson-inc.co                              | 2024 Jan 4<br>om 10:45pm | 219395.647 0.68601336 0.65531662 21958   | 2019 Clay<br>88.514 transportation Diesel | 149129124 2967433   | .31 0                        | 0.07393448 MT/MMBtu                                   | 0.07377323 MT/N            | 1MBtu 4.6E-0                              | 9 MT/mile              | 4.394E-09 MT/mile TF                            | २.2.C                       |
|                  |  |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Where available<br>Sustainability or ESG                                      |  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | reports were used to<br>determine Total GHG<br>Emissions in units of Me       | etric  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Tons of CO2e. Sustaina<br>or ESG reports were                                 | ability  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | available for the followir<br>Railroad Companies an                           | dare   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | attached: CSX, Union<br>Pacific, Norfolk Souther<br>Where Sustainability or   | rn.  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | reports were not availal<br>the AVG emissions per                             | ble  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | of track and AVG gallor<br>diesel per mile of track                           | ns of<br>in  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   | <b>-</b>                            |                                    | the given County was us<br>to calculate the total an                          | inual  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
| 247842           | 3800605 2019-Clay-Rail-Diesel-FDOT   | Rail Transportation (USCP<br>Recommended)  | Scope 1 | II.2.1              | FRCC All (FRCC) eGRII<br>2019                                  | D IPCC 5th Assessment 100<br>Year Values              | Transporta<br>n & Mobile<br>Sources | tio<br>Source and<br>Activity      | gallons Diesel and annu<br>GHG emissions. All dat<br>based off the 2019 yea   |  | 2024 Jan 17<br>05:41pm   |  | 6140 2019 Clay Rail Diese                 |   |                              | 0 MT/MMBtu  |                            |   | 0 MT/MMBtu             | 0 MT/MMBtu                                      | 11                          |
| 247042           | AFOLU  | Recommendedy   | Ocope 1 | 11.2.1              | 2013   |   | 0001003                             | Activity                           |   |  | Sin 00.41pin             | 0140   |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   | Canopy<br>Area of   |                              |   |                            |   |                        |   |                             |
| C                | Dutput Record  |  |         | GPC Re              | ef   |   |                                     |                                    |   |  |                          |  |   | Trees<br>Outside<br>Land Area (hectares Forest            | US<br>Community<br>Protocol  |   |                            |   |                        |   |                             |
|                  | ds With Co2e Inventory Record  | Calculator<br>Emissions and Removals from  | Gpc Sco |                     | r Factor Profiles  | Global Warming Potential<br>IPCC 5th Assessment 100   | Category                            | Activity Sourc                     | ce Notes<br>LEARN Report 2016-20  | Created By<br>019  | Created At<br>2024 Jan 5 | CO2 (MT) CH4 (MT) N2O (MT) CO2e  | (MT) Tags                                 | / year) (hectares   |                              |   |                            |   |                        |   |                             |
| 246267           | 3774039 2019-Clay-County-AFOLU-Undisturbed Fores   | Emissions and Removals from  | ·       |                     |  | Year Values<br>IPCC 5th Assessment 100                | AFOLU                               |                                    | (Gainesville reference)<br>LEARN Report 2016-20                               | 019  | 2024 Jan 5               |  | 2019,AFOLU,Clay                           | 87997   |                              |   |                            |   |                        |   |                             |
| 246268<br>246269 | 3774043 2019-Clay-County-AFOLU-Forest to Grasslar<br>3774047 2019-Clay-County-AFOLU-Non-Forest to Fore | Emissions and Removals from  |         |                     |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values | AFOLU<br>AFOLU                      |                                    | (Gainesville reference)<br>LEARN Report 2016-20<br>(Gainesville reference)    | 019  | 2024 Jan 5               |  | 2019 AFOLU Clay<br>2019,AFOLU,Clay        | 2504<br>6501  |                              |   |                            |   |                        |   |                             |
| 246279           | 3774047 2019-Clay-County-AFOLU-Non-Forest to Settleme  | Emissions and Removals from  | -       |                     |  | IPCC 5th Assessment 100<br>Year Values                | AFOLU                               |                                    | (Gainesville reference)<br>LEARN Report 2016-20<br>(Gainesville reference)    | 019  | 2024 Jan 5               |  | 2019,AFOLU,Clay                           | 292   |                              |   |                            |   |                        |   |                             |
| 246280           | 2019-Clay-County-AFOLU-Forest to Other No<br>3774265 Forest  | on- Emissions and Removals from<br>Forests (USCP Recommended)                            | -       |                     |  | IPCC 5th Assessment 100<br>Year Values                | AFOLU                               |                                    | LEARN Report 2016-20<br>(Gainesville reference)                               | 019<br>rvolenec@hanson-inc.cor                               | 2024 Jan 5<br>m 08:27pm  |  | 2019,AFOLU,Clay                           | 122   |                              |   |                            |   |                        |   |                             |
| 246281           | 3774269 2019-Clay-County-AFOLU-Forest to Wetland   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from | Scope 1 | V.2                 |  | IPCC 5th Assessment 100<br>Year Values                | AFOLU                               |                                    | LEARN Report 2016-20<br>(Gainesville reference)                               |  | 2024 Jan 5<br>m 08:27pm  |  | 2019,AFOLU,Clay                           | 123   |                              |   |                            |   |                        |   |                             |
| 246283           | 3774303 2019-Clay-County-AFOLU-Outside of Forests  | Trees Outside of Forests (USCP   | Scope 1 | V.2                 |  | IPCC 5th Assessment 100<br>Year Values                | AFOLU                               |                                    | LEARN Report 2016-20<br>(Gainesville reference)                               |  | 2024 Jan 5<br>m 08:32pm  |  | 2019 AFOLU Clay                           | 13  | 091                          |   |                            |   |                        |   |                             |
| 247786           | 3799793 2019-Clay-County-AFOLU-Enteric Fermentation  | Emissions from Agricultural<br>on Activities (USCP optional)                             | Scope 1 |                     |  | IPCC 5th Assessment 100<br>Year Values                | AFOLU                               | Source                             | 2017 USDA Agricultural<br>Census  | l<br>rvolenec@hanson-inc.cor                                 | 2024 Jan 16<br>m 09:53pm | 0 718.97 0 201   | 31.16 2019 AFOLU Clay                     |   | A.1                          |   |                            |   |                        |   |                             |
| 248454           | x2019-Clay-County-AFOLU-Enteric<br>3811209 Fermentation  | Emissions from Agricultural<br>Activities (USCP optional)                                | Scope 1 | V.1                 |  | IPCC 5th Assessment 100<br>Year Values                | AFOLU                               | Source                             | 2017 USDA Agricultural<br>Census (AR5 GWP = 2                                 |  | 2024 Jan 22<br>m 07:25am | 0 20131.3 0 563  | 3676.4                                    |   | A.1                          |   |                            |   |                        |   |                             |
|                  | Commercial   |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   |   |                              |   |                            |   |                        | N2  | 20                          |
|                  |  |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   | CO2   | 001                          | CH4 CH4   | N20 N20                    |   | <sup>,</sup> Energy Er | D2  | missions Biog<br>actor CO   |
|                  | Output Record<br>ds With Co2e Inventory Record   | Calculator   | Gpc Sco | GPC Re<br>pe Number | ef<br>r Factor Profiles  | Global Warming Potential                              | Category                            | Activity Sourc                     | ce Notes<br>The above data is pulle   | Created By   | Created At               | CO2 (MT) CH4 (MT) N2O (MT) CO2e  | (MT) Tags                                 | Electricity Energy Emissions<br>Equivalent (MMBtu) Factor | Emissions<br>Factor Units    |   |                            | sions Protocol<br>or Units Reference      |                        | actor Factor (kg<br>g/MMBtu) (kg/MMBtu) u)      | g/MMBt Emi<br>Fac           |
|                  |  |  |         |                     |  |   |                                     |                                    | from the United States<br>Census Bureau's "On T                               |  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Map" tool, the United Si<br>Census Bureau's "Coun                             | tates<br>hty   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  | Emissions from Grid Electricity  |         |                     |  | D IPCC 5th Assessment 100                             | Commercia                           |                                    | Business Patterns Table<br>and the U.S. EIA's "Sta<br>Profile and Energy      |  | 2024 Jan 10              |  | 2019 Clay Commerci                        |   |                              |   |                            |   |                        |   |                             |
| 246912           | 3786596 2019-Clay-Commercial-Elec-Census-EIA   | (USCP Required)  | Scope 2 | 1.2.2               | 2019   | Year Values   | Energy                              | Activity                           | Estimates" for Florida.<br>The above data is pulle                            | cbarsanti@hanson-inc.co                                      |                          | 245893.009 15.7069404 1.99906515 24686   |   | 2148795.222 0.11443                                       | 297 MT/MMBtu                 | 7.3096E-06 MT/MMBtu                                   | 9.3032E-07 MT/N            | 1MBtu BE.2.1                              |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | from the United States<br>Census Bureau's "On T                               | he   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Map" tool, the United St<br>Census Bureau's "Coun<br>Business Patterns Table  | nty  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  | 2019-Clay-Commercial-Fuel-Natural Gas-   | Emissions from Stationary Fuel   |         |                     |  | IPCC 5th Assessment 100                               | Commercia                           | I Source and                       | and the U.S. EIA's "Sta<br>Profile and Energy                                 |  | 2024 Jan 10              |  | 2019 Clay Commerci                        | al  |                              |   |                            |   |                        |   |                             |
| 246935           | 3787015 Census-EIA   | Combustion (USCP Required)   | Scope 1 | I.2.1               |  | Year Values   | Energy                              | Activity                           | Estimates" for Florida.<br>The above data is pulle                            | d  |                          | 22419.7191 2.11427 0.0422854 22490   |   |   | kg/MMBtu                     | kg/MMBtu  | kg/M                       | MBtu                                      | 422854                 | 53.02 0.005                                     | 0.0001                      |
|                  |  |  |         |                     |  |   |                                     |                                    | from the United States<br>Census Bureau's "On T                               | ĥe   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Map" tool, the United St<br>Census Bureau's "Coun<br>Business Patterns Table  | nty  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  | Emissions from Stationary Fuel   |         |                     |  | IPCC 5th Assessment 100                               | Commercia                           | I Source and                       | and the U.S. EIA's "Sta<br>Profile and Energy                                 | ,  | 2024 Jan 11              |  | 2019 Clay Commerci                        | al  |                              |   |                            |   |                        |   |                             |
| 247096           | 3789260 2019-Clay-Commercial-Fuel-LPG-Census-EIA   | Combustion (USCP Required)   | Scope 1 | I.2.1               |  | Year Values   | Energy                              | Activity                           | Estimates" for Florida.<br>The above data is pulle                            | d  | om 01:36pm               | 20629.3509 3.56036957 0.35603696 20823   |   |   | kg/MMBtu                     | kg/MMBtu  | kg/M                       | MBtu                                      | 327554                 | 62.98 0.0108696 0                               | .001087                     |
|                  |  |  |         |                     |  |   |                                     |                                    | from the United States<br>Census Bureau's "On T<br>Map" tool, the United St   | ĥe   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Census Bureau's "Coun<br>Business Patterns Table                              | nty  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  | 2019-Clay-Commercial-Fuel-Distillate Fuel Oil  | - Emissions from Stationary Fuel   |         |                     |  | IPCC 5th Assessment 100                               | Commercia                           | I Source and                       | and the U.S. EIA's "Sta   |  | 2024 Jan 11              |  | 2019 Clay Commerci                        | al  |                              |   |                            |   |                        |   |                             |
| 247097           | 3789284 Census-EIA   | Combustion (USCP Required)   | Scope 1 | I.2.1               |  | Year Values   | Energy                              | Activity                           | Estimates" for Florida.<br>The above data is pulle                            | d  | om 01:36pm               | 6531.48156 0.95990217 0.06399348 6575.   | 31709 fuel                                |   | kg/MMBtu                     | kg/MMBtu  | kg/M                       | MBtu                                      | 88311                  | 73.96 0.0108696 0                               | .000725                     |
|                  |  |  |         |                     |  |   |                                     |                                    | from the United States<br>Census Bureau's "On T<br>Map" tool, the United St   | ĥe   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Census Bureau's "Coun<br>Business Patterns Table                              | nty  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  | 2019-Clay-Commercial-Fuel-Kerosene-Censu   |  |         |                     |  | IPCC 5th Assessment 100                               |                                     | I Source and                       | and the U.S. EIA's "Sta<br>Profile and Energy                                 |  | 2024 Jan 11              |  | 2019 Clay Commerci                        | al  |                              |   |                            |   |                        |   |                             |
| 247098           | 3789308 EIA  | Combustion (USCP Required)   | Scope 1 | I.2.1               |  | Year Values   | Energy                              | Activity                           | Estimates" for Florida.<br>The above data is pulled<br>from the United States | d  | om 01:37pm               | 3.9104 0.00057778 3.8519E-05 3.936   | 78519 fuel                                |   | kg/MMBtu                     | kg/MMBtu  | kg/M                       | MBtu                                      | 52                     | 75.2 0.0111111 0                                | 000741                      |
|                  |  |  |         |                     |  |   |                                     |                                    | from the United States<br>Census Bureau's "On T<br>Map" tool, the United St   | ĥe   |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Census Bureau's "Coun<br>Business Patterns Table                              | nty<br>es",  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  | 2019-Clay-Commercial-Fuel-Gasoline-Census  |  |         |                     |  | IPCC 5th Assessment 100                               | Commercia                           |                                    | and the U.S. EIA's "Sta<br>Profile and Energy                                 | te   | 2024 Jan 11              |  | 2019 Clay Commerci                        | al  |                              |   |                            |   |                        | 70.00   | 0.000                       |
| 247099           | 3789332 EIA  | Combustion (USCP Required)   | Scope 1 | I.2.1               |  | Year Values   | Energy                              | Activity                           | Estimates" for Florida.<br>The above data is pulled<br>from the United States | d  | om 01:38pm               | 13044.2076 2.0805344 0.1486096 13141   | .8441 TUEI                                |   | kg/MMBtu                     | kg/MMBtu  | kg/M                       | VIBIU                                     | 185762                 | 70.22 0.0112                                    | U.UU08                      |
|                  |  |  |         |                     |  |   |                                     |                                    | Census Bureau's "On T<br>Map" tool, the United Si                             | he<br>tates  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    | Census Bureau's "Coun<br>Business Patterns Table                              | nty<br>es",  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
| 247100           | 2019-Clay-Commercial-Fuel-Propane-Census<br>3789356 EIA  | - Emissions from Stationary Fuel<br>Combustion (USCP Required)                           | Scope 1 | 101                 |  | IPCC 5th Assessment 100<br>Year Values                | Commercia<br>Energy                 | I Source and<br>Activity           | and the U.S. EIA's "Sta<br>Profile and Energy<br>Estimates" for Florida.      | te<br>cbarsanti@hanson-inc.co                                | 2024 Jan 11              | 3283.37758 0.58706593 0.05870659 3315.   | 2019 Clay Commerci<br>37267 fuel          | al  | kg/MMBtu                     | kg/MMBtu  | kg/M                       | MBtu                                      | 53423                  | 61.46 0.010989 0                                | 001000                      |
| 271100           | Solid Waste  |  | Soope I | 1.2.1               |  |   | LIGIUY                              | , convity                          | _otimatoo ioi i⁻i0110ä.   | озагоана <del>с</del> нано∪н-шс.С0                           | оттоории                 |  |   |   |                              | ry/wiwiDlu  | KY/IVI                     |   | 00 <del>4</del> 20     | J0 0.010909 U                                   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   |   |                              |   |                            |   |                        |   |                             |
|                  |  |  |         |                     |  |   |                                     |                                    |   |  |                          |  |   |   |                              |   |                            |   |                        |   |                             |

### Clay County 2019 Detailed GHG Inventory

## init Energy col Equivalent nce (MMBtu)

### 117788.6

## Biogenic Ans Biogenic CO2 CO2 Emissions Ans Emissions Factor Factor Units

### 0.0001 0 kg/MMBtu

01087 0 kg/MMBtu

00725 0 kg/MMBtu

00741 0 kg/MMBtu

0.0008 0 kg/MMBtu

### 01099 0 kg/MMBtu

|        | Output Record<br>ds With Co2e Inventory Record                   | Calculator  | Gpc Scope | GPC Ref<br>Number | Factor Profiles | Global Warming Potential               | Category    | Activity Source Notes | Created By         | Created At CO2 (MT)    | CH4 (MT) N2O (MT) | CO2e (MT) Tags |
|--------|--|---|-----------|-------------------|-----------------|--|-------------|-----------------------|--------------------|------------------------|-------------------|----------------|
| 247334 | 2019 Clay County Solid Waste Landfill Waste<br>3792537 Generator | Landfilled Waste (USCP Required, Preferred, where applicable) |           | III.1.1           | -               | IPCC 5th Assessment 100<br>Year Values | Solid Waste | Source                | avo@hanson-inc.com | 2024 Jan 15<br>04:05pm | 4063.9853         | 113791.588     |

### Clay County 2019 Detailed GHG Inventory

|      |                 |            |            |              |            | Magazines/7 | Г           |            |            |            |             |          |          |          |           |          |           |          |          |             |           |          |     |
|------|-----------------|------------|------------|--------------|------------|-------------|-------------|------------|------------|------------|-------------|----------|----------|----------|-----------|----------|-----------|----------|----------|-------------|-----------|----------|-----|
|      |                 |            |            |              | Corrugated | hird Class  |             |            |            |            | Dimensional |          |          |          | Corrugate | Magazine | •         |          |          |             |           |          |     |
|      |                 | Mixed MSW  | Newspaper  | Office Paper | Cardboard  | Mail        | Food Scraps | Grass      | Leaves     | Branches   | Lumber      | Mixed    |          | Office   | d         | s/Third  | Food      |          |          |             | Dimensior | 1        |     |
|      |                 | Emissions  | Emissions  | Emissions    | Emissions  | Emissions   | Emissions   | Emissions  | Emissions  | Emissions  | Emissions   | MSW      | Newspap  | Paper    | Container | Class Ma | il Scraps | Grass    | Leaves   | Branches    | al Lumber |          |     |
|      |                 | Factor (MT | Factor (MT | Factor (MT   | Factor (MT | Factor (MT  | Factor (MT  | Factor (MT | Factor (MT | Factor (MT | Factor (MT  | LFG      | er LFG   | LFG      | s LFG     | LFG      | LFG       | LFG      | LFG      | LFG         | LFG       |          |     |
|      | Waste Generated | CH4/wet    | CH4/wet    | CH4/wet      | CH4/wet    | CH4/wet     | CH4/wet     | CH4/wet    | CH4/wet    | CH4/wet    | CH4/wet     | Capture  | Capture  | Capture  | Capture   | Capture  | Capture   | Capture  | Capture  | Capture     | Capture   | Oxidatio | 'n  |
| Fags | (wet tons)      | short ton) | short ton) | short ton)   | short ton) | short ton)  | short ton)  | short ton) | short ton) | short ton) | short ton)  | Rate (%) | Rate (%) | Rate (%) | Rate (%)  | Rate (%) | Rate (%)  | Rate (%) | Rate (%) | Rate (%)    | Rate (%)  | Rate     |     |
|      |                 |            |            |              |            |             |             |            |            |            |             |          |          |          |           |          |           |          |          |             |           |          |     |
|      |                 |            |            |              |            |             |             |            |            |            |             |          |          |          |           |          |           |          |          |             |           |          |     |
|      | 2288            | 19 0.0648  | 3 0.042    | 2 0.1556     | 6 0.104    | 8 0.047     | 6 0.0648    | 0.0228     | 3 0.026    | 6 0.058    | 3 0.0068    | 6        | 0 59     | 9 58     | 3 54      | 1 52     | 25        | 0 39     | ) 47     | <b>7</b> 57 | I 57      | ' C      | ).1 |

### Residential

|  |  |   |  |   |  |   |  |   | CO2  |  | CH4 CH4  | N2O N2O  | US Bioger<br>Community Energy CO2  | CO2   |  |   |
|--|--|---|--|---|--|---|--|---|--|--|--|--|--|---|--|---|
| Output Record<br>Id Ids With Co2e Inventory Record   | Calculator<br>Emissions from Grid Electricity  | GPC R<br>Gpc Scope Numbe  | er Factor Profiles                               | Global Warming Potential<br>ID IPCC 5th Assessment 100  | Category Activity So<br>Residential  | urce Notes<br>American Community Surve  |  | t CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags<br>26   | Electricity Energy Emiss<br>Equivalent (MMBtu) Facto   |  | Emissions Emissions<br>Factor Factor Units                                       | Emissions Emissions<br>Factor Factor Units                                       | Protocol Equivalent Emissi<br>Reference (MMBtu) Factor   | ions Emissions<br>r Factor Units  |  |   |
| 245903 3766653 2019-Duval-Residential-Elec-Census-EIA  | (USCP Required)<br>Emissions from Stationary Fuel  | Scope 2 I.1.2   |  | Year Values<br>IPCC 5th Assessment 100  | Energy Activity  | ACSST5Y2019   | inc.com 11:10pm  | 2223939.29 142.058865 18.0802192 2232708.19 DUVAL Electri   | city 0.11  | 1443297 MT/MMBtu   |  | 7.3096E-06 MT/MMBtu  | 9.303E-07 MT/MMBtu BE.2.1  | 1 19434429  |  |   |
| 245901 3766605 2019-Duval-Residential-NG-Census-EIA  | Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.1.1   |  | Year Values<br>IPCC 5th Assessment 100  | Energy Activity  | ACSST5Y2019   | inc.com 10:47pm  | 40371.0928 3.807157 0.07614314 40497.8712 DUVAL natura<br>26 2019 RESIDE  | gas 761431.4<br>\TIAL                                  | 53.02 kg/MMBtu   | 0 kg/MMBtu   | 0.005 kg/MMBtu   | 0.0001 kg/MMBtu BE.1.1   | 1   |  |   |
| 245902 3766629 2019-Duval-Residential-LPG-Census-EIA   | Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.1.1   |  | Year Values<br>IPCC 5th Assessment 100  |  | ACSST5Y2019   | inc.com 11:04pm<br>apolematidis@hanson- 2023 Dec 2   |   |  | 62.98 kg/MMBtu   | 0 kg/MMBtu   | 0.01086957 kg/MMBtu  | -  |   |  |   |
| <ul> <li>245904 3766673 2019-Duval-Residential-FO-Census-EIA</li> <li>247902 3801690 2019-Duval-Residential-WOOD-Census-EIA</li> </ul>   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 I.1.1<br>Scope 1 I.1.1  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy Activity<br>Residential Source an<br>Energy Activity  | American Community Surve<br>ACSST5Y2019   | inc.com 11:45pm<br>y 2024 Jan 1<br>rvolenec@hanson-inc.com 08:46pm   | 9606.07272 1.41176087 0.09411739 9670.54313<br>17 2019 RESIDE<br>0 4.24609832 0.05643548 133.846156 DUVAL fuel  | 2019 129882<br>JTIAL 13437.02                          | 73.96 kg/MMBtu<br>0 kg/MMBtu   | 0 kg/MMBtu<br>93.8 kg/MMBtu  | 0.01086957 kg/MMBtu<br>0.316 kg/MMBtu  | 0.0007246 kg/MMBtu BE.1.2<br>0.0042 kg/MMBtu BE.1.2  |   |  |   |
| Transportation   |  |   |  |   |  | 10001012010   |  |   | 10101.02   |  | 55.5 Kg/MMEta  |  | 0.00 12 kg/wwbka - DE. 1.2   | -   |  |   |
|  |  |   |  |   |  |   |  |   |  |  |  |  |  |   |  |   |
| Output Decord  |  |   |  |   |  |   |  |   | Fossi<br>Energ   | gy Biofuel   | CO2 CO2  | Biogenic Biogenic<br>CO2 CO2   | CH4 CH4 N2O  |   | nit Energy   |   |
| Output Record         Id       Ids With Co2e         Id  | Calculator   | GPC R<br>Gpc Scope Numbe  |  | Global Warming Potential  | Category Activity So   | urce Notes  | Created By Created At  | t CO2 (MT) CH4 (MT) N2O (MT) CO2e (MT) Tags   | Equiv<br>On Road VMT (MME                              |  | Emissions Emissions<br>Factor Factor Units                                       | Emissions Emissions<br>Factor Factor Units                                       | Emissions Emissions Emissi<br>Factor Factor Units Factor   | 5   | col Equivalent<br>ce (MMBtu)   |   |
|  |  |   |  |   |  | The above data is pulled from Google's Environmenta   | al   |   |  |  |  |  |  |   |  |   |
|  |  |   | FRCC All (FRCC) eGF                              | ID  |  | Insights platform for Duval<br>County and calculated  |  | 2019 DUVAL  |  |  |  |  |  |   |  |   |
|  | On Road Transportation (USCP   |   | 2019 and 2019 US<br>National Defaults            | IPCC 5th Assessment 100   |  | 0   |  |   | AL   | 17202 5 0  |  |  |  |   |  |   |
| 245984 3768163 2019-Duval-Transportation-Gasoline-GEI  | Required)  | Scope 1 II.1.1  | (updated 2020)                                   | Year Values   | Sources Activity   | spreadsheet.<br>The above data is pulled  | mcoalson@hanson-inc.com 05:23pm  | 2368309.65 112.759082 61.3622127 2387727.89 transportation  | Gasoline 5784522314 3371                               | 17392.5 0  | 0.07024 MT/MMBtu   | 0.0684136 MT/MMBtu   | 1.949E-08 MT/mile 1.06   | 1E-08 MT/mile TR.1.A  |  |   |
|  |  |   |  |   |  | from Google's Environmenta<br>Insights platform for Duval   |  |   |  |  |  |  |  |   |  |   |
|  |  |   | FRCC All (FRCC) eGF<br>2019 and 2019 US          |   | Transportatio  | County and calculated through ClearPath's   |  |   |  |  |  |  |  |   |  |   |
| 246130 3771527 2019-Duval-Transportation-Diesel-GEI  | On Road Transportation (USCP Required)   | Scope 1 II.1.1  | National Defaults (updated 2020)                 | IPCC 5th Assessment 100<br>Year Values  | n & Mobile Source an<br>Sources Activity   | guidance documentation and spreadsheet.   | d 2024 Jan 4<br>mcoalson@hanson-inc.com 10:48pm  | 4 2019 Diesel<br>881370.55 2.75589775 2.6325808 882145.349 transportation   | DUVAL 599091275.9 1192                                 | 20967.3 0  | 0.07393448 MT/MMBtu  | 0.07377323 MT/MMBtu  | 4.6E-09 MT/mile 4.39   | 94E-09 MT/mile TR.2.C   |  |   |
|  |  |   |  |   |  | Where available   |  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | Sustainability or ESG reports were used to  |  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | determine Total GHG<br>Emissions in units of Metric   |  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | Tons of CO2e. Sustainabilit<br>or ESG reports were<br>available for the following   | У  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | Railroad Companies and ar<br>attached: CSX, Union   | e  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | Pacific, Norfolk Southern.<br>Where Sustainability or ESC   | 3  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | reports were not available<br>the AVG emissions per mile  |  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | of track and AVG gallons of<br>diesel per mile of track in<br>the given County was used   |  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   | Transportatio  | to calculate the total annual gallons Diesel and annual   |  |   |  |  |  |  |  |   |  |   |
| 247843 3800620 2019-Duval-Rail-Diesel-FDOT   | Rail Transportation (USCP<br>Recommended)  | Scope 1 II.2.1  |  | ID IPCC 5th Assessment 100<br>Year Values   | n & Mobile Source an<br>Sources Activity   | GHG emissions. All data is based off the 2019 year.   | 2024 Jan 1<br>mcoalson@hanson-inc.com 05:43pm  | 17 DUVAL Rail D<br>18061 18061 2019   | esel   |  | 0 MT/MMBtu   |  | 0 MT/MMBtu   | 0 MT/MMBtu  | 356606.9   |   |
| AFOLU  |  |   |  |   |  |   |  |   | Cana   |  |  |  |  |   |  |   |
|  |  |   |  |   |  |   |  |   | Cano<br>Area<br>Trees                                  | of   |  |  |  |   |  |   |
| Output Record  |  | GPC R   | Ref  |   |  |   |  |   | Outsi<br>Land Area (hectares Fores                     | ide Community  |  |  |  |   |  |   |
| Id Ids With Co2e Inventory Record  | Calculator<br>Emissions and Removals from  | Gpc Scope Numbe   | er Factor Profiles                               | Global Warming Potential<br>IPCC 5th Assessment 100   | Category Activity So   | LEARN Report 2016-2019  | 2024 Jan 5   |   | / year) (hecta   | ares) Reference  |  |  |  |   |  |   |
| 246286 3774361 2019-Duval-County-AFOLU-Undisturbed Fore<br>2019-Duval-County-AFOLU-Forest to<br>246287 2774365 Creational  | Emissions and Removals from  |   |  | Year Values<br>IPCC 5th Assessment 100  |  | (Gainesville reference)<br>LEARN Report 2016-2019   |  |   |  |  |  |  |  |   |  |   |
| 246287 3774365 Grassland<br>2019-Duval-County-AFOLU-Non-Forest to<br>246288 3774369 Forest   | Forests (USCP Recommended)<br>Emissions and Removals from<br>Forests (USCP Recommended)  |   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLU<br>AFOLU   | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)  | rvolenec@hanson-inc.com 08:46pm<br>2024 Jan 5<br>rvolenec@hanson-inc.com 08:47pm   | 2019 AFOLU I<br>5<br>2019 AFOLU I   |  |  |  |  |  |   |  |   |
| 246289 3774373 Settlement  | Emissions and Removals from<br>Forests (USCP Recommended)  |   |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  | (Gainesville reference)   | rvolenec@hanson-inc.com 08:48pm  |   |  |  |  |  |  |   |  |   |
| 2019-Duval-County-AFOLU-Forest to Other<br>246290 3774377 Non-Forest   | Forests (USCP Recommended)   | Scope 1 V.2   |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  |   | rvolenec@hanson-inc.com 08:51pm  | 5<br>2019 AFOLU I   |  |  |  |  |  |   |  |   |
| 246291 3774381 2019-Duval-County-AFOLU-Forest to Wetland   | Emissions and Removals from<br>d Forests (USCP Recommended)<br>Emissions and Removals from   | Scope 1 V.2   |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  | LEARN Report 2016-2019<br>(Gainesville reference)   | 2024 Jan 5<br>rvolenec@hanson-inc.com 08:55pm  | 5 2019 AFOLU I  | Duval 425  |  |  |  |  |   |  |   |
| 246292 3774387 2019-Duval-County-AFOLU-Outside of Forest   | Trees Outside of Forests (USCP   | Scope 1 V.2   |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  | LEARN Report 2016-2019<br>(Gainesville reference)   | 2024 Jan 5<br>rvolenec@hanson-inc.com 08:57pm  | 5<br>2019 AFOLU I   | Duval  | 23875  |  |  |  |   |  |   |
| 2019-Duval-County-AFOLU-Enteric<br>247793 3799843 Fermentation   | Emissions from Agricultural<br>Activities (USCP optional)  | Scope 1 V.1   |  | IPCC 5th Assessment 100<br>Year Values  |  | 2017 USDA Agricultural<br>Census  | rvolenec@hanson-inc.com 10:05pm  | 16  |  | A.1  |  |  |  |   |  |   |
| x2019-Duval-County-AFOLU-Enteric<br>248455 3811223 Fermentation  | Emissions from Agricultural<br>Activities (USCP optional)  | Scope 1 V.1   |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU Source   | 2017 USDA Agricultural<br>Census (AR5 GWP = 28)   | 2024 Jan 2<br>rvolenec@hanson-inc.com 07:27am  | 22<br>0 30168 0 844704  |  | A.1  |  |  |  |   |  |   |
| Commercial   |  |   |  |   |  | The above data is pulled  |  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | from the United States<br>Census Bureau's "On The   |  |   |  |  |  |  |  |   |  |   |
|  |  |   |  |   |  | Map" tool, the United States<br>Census Bureau's "County   | 8  |   |  |  |  |  |  |   |  |   |
|  | Emissions from Grid Electricity  |   |  | ID IPCC 5th Assessment 100  | Commercial   | Business Patterns Tables",<br>and the U.S. EIA's "State<br>Brafile and Eporate  | 2024 Jan 1   | 10 2019 DUVAL   |  |  |  |  |  |   |  |   |
| 246913 3786632 2019-Duval-Commercial-Elec-Census-EIA   | (USCP Required)  |   | · · · · · · · · · · · · · · · · · · ·            | Year Values   | Commercial<br>Energy Activity  | Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled   | cbarsanti@hanson-inc.com 07:30pm   | 2019 DOVAL<br>2352269.58 150.256237 19.1235211 2361544.49 Commercial E  | ectricity 20555873.72 0.11                             | 1443297 MT/MMBtu   | 7.3096E-06 MT/MMBtu  | 9.3032E-07 MT/MMBtu  | BE.2.1   |   |  |   |
|  |  | Scope 2 1.2.2   |  |   |  |   |  | 2352203.30 130.230237 13.1235211 2301344.43 Commercial L  | ,  |  |  |  |  |   |  |   |
|  |  | Scope 2 I.2.2   |  |   |  | from the United States<br>Census Bureau's "On The   |  | 2352203.30 130.230237 13.1233211 2301344.43 Commercial L  |  |  |  |  |  |   |  |   |
|  |  | Scope 2 I.2.2   |  |   |  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County  | 8  | 2352203.30 130.230237 13.1233211 2301344.43 Commercial L  |  |  |  |  |  |   |  |   |
| 2019-Duval-Commercial-Eucl-Distillate Eucl   | Nil- Emissions from Stationary Eucl  | Scope 2 I.2.2   |  | IPCC 5th Assessment 100   | Commercial Source an   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | 5  |   |  |  |  |  |  |   |  |   |
| 2019-Duval-Commercial-Fuel-Distillate Fuel C<br>246936 3787039 Census-EIA  |  | Scope 2 I.2.2<br>Scope 1 I.2.1  |  | IPCC 5th Assessment 100<br>Year Values  | Commercial Source an<br>Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.  | 8  | 10 2019 DUVAL   |  | kg/MMBtu   | kg/MMBtu   | kg/MMBtu   | 844800   | 73.96 0.0108696 0.00072   | 25 0 kg/MMBtu  |   |
|  |  |   |  |   |  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The   | s<br>2024 Jan 1<br>cbarsanti@hanson-inc.com 08:33pm  | 10 2019 DUVAL   |  | kg/MMBtu   |  |  | 844800   | 73.96 0.0108696 0.00072   | 25 0 kg/MMBtu  |   |
|  |  |   |  |   |  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County  | s<br>2024 Jan 1<br>cbarsanti@hanson-inc.com 08:33pm  | 10 2019 DUVAL   |  | kg/MMBtu   |  |  | 844800   | 73.96 0.0108696 0.00072   | 25 0 kg/MMBtu  |   |
|  | Combustion (USCP Required)   |   |  | Year Values   | Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | s<br>2024 Jan 1<br>cbarsanti@hanson-inc.com 08:33pm  | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu  |  | kg/MMBtu   |  |  | 844800   | 73.96 0.0108696 0.00072   | 25 0 kg/MMBtu  |   |
|  | Combustion (USCP Required)<br>Emissions from Stationary Fuel   |   |  |   | Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled  | s<br>2024 Jan 1<br>cbarsanti@hanson-inc.com 08:33pm  | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL   | el   | kg/MMBtu<br>kg/MMBtu   |  |  |  | 73.96 0.0108696 0.00072<br>62.98 0.0108696 0.00108  |  |   |
| 246936 3787039 Census-EIA  | Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.2.1   |  | Year Values<br>IPCC 5th Assessment 100  | Energy Activity<br>Commercial Source an  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The   | s 2024 Jan 1<br>cbarsanti@hanson-inc.com 08:33pm<br>s 2024 Jan 1<br>cbarsanti@hanson-inc.com 01:44pm   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL   | el   | J  | kg/MMBtu   | kg/MMBtu   |  |   |  |   |
| 246936 3787039 Census-EIA  | Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.2.1   |  | Year Values<br>IPCC 5th Assessment 100  | Energy Activity<br>Commercial Source an  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County  | s 2024 Jan 1<br>cbarsanti@hanson-inc.com 08:33pm<br>s 2024 Jan 1<br>cbarsanti@hanson-inc.com 01:44pm   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL   | el   | J  | kg/MMBtu   | kg/MMBtu   |  |   |  |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>IA Combustion (USCP Required)  | Scope 1 I.2.1   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy Activity<br>Commercial Source and<br>Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State  | s 2024 Jan 1<br>cbarsanti@hanson-inc.com 08:33pm<br>s 2024 Jan 1<br>cbarsanti@hanson-inc.com 01:44pm   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL<br>197345.437 34.0593696 3.40593696 199201.672 Commercial fu  | el   | J  | kg/MMBtu   | kg/MMBtu   |  |   |  |   |
| 246936 3787039 Census-EIA  | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.2.1   |  | Year Values<br>IPCC 5th Assessment 100  | Energy Activity<br>Commercial Source and<br>Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled  | s 2024 Jan 1<br>cbarsanti@hanson-inc.com 08:33pm<br>s 2024 Jan 1<br>cbarsanti@hanson-inc.com 01:44pm<br>s 2024 Jan 1   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL<br>197345.437 34.0593696 3.40593696 199201.672 Commercial fu  | el<br>el   | J  | kg/MMBtu   | kg/MMBtu   | 3133462  |   | 87 0 kg/MMBtu  |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-  | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.2.1<br>Scope 1 I.2.1  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy Activity<br>Commercial Source and<br>Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 2<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 2<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 2   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL<br>197345.437 34.0593696 3.40593696 199201.672 Commercial fu<br>11 2019 DUVAL   | el<br>el   | kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 3133462  | 62.98 0.0108696 0.00108   | 87 0 kg/MMBtu  |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-  | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.2.1<br>Scope 1 I.2.1  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy Activity<br>Commercial Source and<br>Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL<br>197345.437 34.0593696 3.40593696 199201.672 Commercial fu<br>11 2019 DUVAL   | el<br>el   | kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 3133462  | 62.98 0.0108696 0.00108   | 87 0 kg/MMBtu  |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-  | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 I.2.1<br>Scope 1 I.2.1  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy Activity<br>Commercial Source and<br>Energy Activity<br>Commercial Source and<br>Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | s 2024 Jan 1<br>08:33pm<br>s 2024 Jan 1<br>01:44pm<br>s 2024 Jan 1<br>01:44pm<br>s 2024 Jan 1<br>01:44pm   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL<br>197345.437 34.0593696 3.40593696 199201.672 Commercial fu<br>11 2019 DUVAL<br>214472.421 20.225615 0.4045123 215145.934 Commercial fu  | el<br>el   | kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 3133462  | 62.98 0.0108696 0.00108   | 87 0 kg/MMBtu  |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 I.2.1<br>Scope 1 I.2.1  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy Activity<br>Commercial Source and<br>Energy Activity<br>Commercial Source and<br>Energy Activity  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL<br>197345.437 34.0593696 3.40593696 199201.672 Commercial fu<br>11 2019 DUVAL<br>214472.421 20.225615 0.4045123 215145.934 Commercial fu  | el<br>el   | kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 3133462<br>4045123   | 62.98 0.0108696 0.00108   | 87 0 kg/MMBtu<br>01 0 kg/MMBtu   |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Cens   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                                   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 2<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 2<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 2<br>cbarsanti@hanson-inc.com 2024 Jan 1  | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL<br>197345.437 34.0593696 3.40593696 199201.672 Commercial fu<br>11 2019 DUVAL<br>214472.421 20.225615 0.4045123 215145.934 Commercial fu  | el<br>el   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 3133462<br>4045123   | 62.98 0.0108696 0.00108<br>53.02 0.005 0.000  | 87 0 kg/MMBtu<br>01 0 kg/MMBtu   |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Cens   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                                   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1   | 10 2019 DUVAL<br>62481.408 9.1826087 0.61217391 62900.7471 Commercial fu<br>11 2019 DUVAL<br>197345.437 34.0593696 3.40593696 199201.672 Commercial fu<br>11 2019 DUVAL<br>214472.421 20.225615 0.4045123 215145.934 Commercial fu  | el<br>el   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 3133462<br>4045123   | 62.98 0.0108696 0.00108<br>53.02 0.005 0.000  | 87 0 kg/MMBtu<br>01 0 kg/MMBtu   |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Cens   | Combustion (USCP Required) Emissions from Stationary Fuel Combustion (USCP Required) Emissions from Stationary Fuel Combustion (USCP Required) eus- Emissions from Stationary Fuel Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                                   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1   | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       2019 DUVAL         13       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       2019 DUVAL         13       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu   | el<br>el   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 3133462<br>4045123   | 62.98 0.0108696 0.00108<br>53.02 0.005 0.000  | 87 0 kg/MMBtu<br>01 0 kg/MMBtu   |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Cens<br>247103 3789428 EIA   | Combustion (USCP Required) Emissions from Stationary Fuel Combustion (USCP Required) Emissions from Stationary Fuel Combustion (USCP Required) eus- Emissions from Stationary Fuel Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                                   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:46pm 1   | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       2019 DUVAL         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       37.5248       0.00554444       0.20036963       37.7779963       Commercial fu   |  | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 3133462<br>4045123<br>499  | 62.98 0.0108696 0.00108<br>53.02 0.005 0.000  | 87 0 kg/MMBtu<br>01 0 kg/MMBtu<br>41 0 kg/MMBtu  |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Censu<br>247103 3789428 EIA<br>2019-Duval-Commercial-Fuel-Gasoline-Censu   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>sus- Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                                   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy  | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:46pm 1   | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       2019 DUVAL         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       37.5248       0.00554444       0.20036963       37.7779963       Commercial fu   |  | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | 3133462<br>4045123<br>499  | 62.98 0.0108696 0.00108<br>53.02 0.005 0.000<br>75.2 0.0111111 0.00074  | 87 0 kg/MMBtu<br>01 0 kg/MMBtu<br>41 0 kg/MMBtu  |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Censu<br>247103 3789428 EIA<br>2019-Duval-Commercial-Fuel-Gasoline-Censu   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>sus- Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                                   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1                              | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       2019 DUVAL         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       37.5248       0.00554444       0.20036963       37.7779963       Commercial fu   |  | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | 3133462<br>4045123<br>499  | 62.98 0.0108696 0.00108<br>53.02 0.005 0.000<br>75.2 0.0111111 0.00074  | 87 0 kg/MMBtu<br>01 0 kg/MMBtu<br>41 0 kg/MMBtu  |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Censu<br>247103 3789428 EIA<br>2019-Duval-Commercial-Fuel-Gasoline-Censu   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>sus- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>us- Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "Contry<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:46pm 1<br>s 2024 Jan 1   | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu  |  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                                     | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                                     | 3133462<br>4045123<br>499<br>1777042   | 62.98       0.0108696       0.00108         53.02       0.005       0.000         75.2       0.0111111       0.00074         70.22       0.0112       0.000   | <ul> <li>87 0 kg/MMBtu</li> <li>01 0 kg/MMBtu</li> <li>41 0 kg/MMBtu</li> <li>08 0 kg/MMBtu</li> </ul>   |   |
| 246936         3787039 Census-EIA           247101         3789380 2019-Duval-Commercial-Fuel-LPG-Census-EI           247102         3789404 Census-EIA           247103         3789404 Census-EIA           247103         3789428 EIA           247104         3789428 EIA           2019-Duval-Commercial-Fuel-Kerosene-Census-EIA           247103         3789428 EIA           2019-Duval-Commercial-Fuel-Gasoline-Census-EIA           247104         3789452 EIA           2019-Duval-Commercial-Fuel-Propane-Census-EIA  | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>sus- Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                                   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1<br>01:46pm 1<br>5 cbarsanti@hanson-inc.com 2024 Jan 1  | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu  |  | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | 3133462<br>4045123<br>499<br>1777042   | 62.98 0.0108696 0.00108<br>53.02 0.005 0.000<br>75.2 0.0111111 0.00074  | <ul> <li>87 0 kg/MMBtu</li> <li>01 0 kg/MMBtu</li> <li>41 0 kg/MMBtu</li> <li>08 0 kg/MMBtu</li> </ul>   |   |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-Ei<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Census<br>247103 3789428 EIA<br>2019-Duval-Commercial-Fuel-Gasoline-Census<br>247104 3789452 EIA   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>sus- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>us- Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "Contry<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:46pm 1<br>s 2024 Jan 1   | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu  |  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                                     | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                                     | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                         | 3133462<br>4045123<br>499<br>1777042   | 62.98       0.0108696       0.00108         53.02       0.005       0.000         75.2       0.0111111       0.00074         70.22       0.0112       0.000         61.46       0.010989       0.00108  | <ul> <li>87 0 kg/MMBtu</li> <li>01 0 kg/MMBtu</li> <li>41 0 kg/MMBtu</li> <li>08 0 kg/MMBtu</li> <li>99 0 kg/MMBtu</li> </ul>  |   |
| 246936         3787039 Census-EIA           247101         3789380 2019-Duval-Commercial-Fuel-LPG-Census-EI           247102         3789404 Census-EIA           247103         3789404 Census-EIA           247103         3789428 EIA           247104         3789428 EIA           2019-Duval-Commercial-Fuel-Kerosene-Census-EIA           247103         3789428 EIA           2019-Duval-Commercial-Fuel-Gasoline-Census-EIA           247104         3789452 EIA           2019-Duval-Commercial-Fuel-Propane-Census-EIA  | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>sus- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>us- Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1                  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "Contry<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>08:33pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:44pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:45pm 1<br>s cbarsanti@hanson-inc.com 2024 Jan 1<br>01:46pm 1<br>s 2024 Jan 1   | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu  |  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                         | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                         | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                                     | 3133462<br>4045123<br>499<br>1777042   | 62.98       0.0108696       0.00108         53.02       0.005       0.000         75.2       0.0111111       0.00074         70.22       0.0112       0.000         61.46       0.010989       0.00108         hes       Dimensional Lumber       Mixed   | 87 0 kg/MMBtu<br>01 0 kg/MMBtu<br>41 0 kg/MMBtu<br>08 0 kg/MMBtu<br>99 0 kg/MMBtu<br>Corrugate Magazine<br>Office d s/Third Food   | Dimension<br>ranches al Lumber                          |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247103 3789428 EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Censu<br>247104 3789452 EIA<br>2019-Duval-Commercial-Fuel-Gasoline-Censu<br>247105 2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>247105 3789452 EIA<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>eus- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>us- Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1 | Ref  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>3 cbarsanti@hanson-inc.com 2024 Jan 1                            | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu         11       31409.6861       5.61603297       0.5616033       31715.7599       Commercial fu  | el<br>el<br>el<br>el<br>vaste Generated Mixeo<br>CH4/A | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | 3133462<br>4045123<br>499<br>1777042<br>511059<br>s Grass Leaves Branch<br>Emissions Emissions Emissi            | 62.98       0.0108696       0.00108         53.02       0.005       0.000         75.2       0.0111111       0.00074         70.22       0.0112       0.000         61.46       0.010989       0.00108         61.46       0.010989       0.00108         hes       Lumber       Mixed         Factor (MT       LFG         vet       CH4/wet       Capture | 87 0 kg/MMBtu<br>01 0 kg/MMBtu<br>41 0 kg/MMBtu<br>08 0 kg/MMBtu<br>99 0 kg/MMBtu<br>99 0 kg/MMBtu<br>Exarrise Magazine Series Grass Leaves E<br>office d s/Third Food<br>Newspap Paper Container Class Mail Scraps Grass Leaves E<br>er LFG LFG s LFG | ranches al Lumber<br>FG LFG<br>apture Capture Oxidation |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-El<br>247102 2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247103 3789428 EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Censu<br>247104 3789452 EIA<br>2019-Duval-Commercial-Fuel-Gasoline-Censu<br>247105 3789452 EIA<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>247105 3789452 EIA<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>247105 3789452 EIA   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>us- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>us- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Calculator | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1 | Ref<br>er Factor Profiles                        | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>cbarsanti@hanson-inc.com 2024 Jan 1 | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu         11       31409.6861       5.61603297       0.5616033       31715.7599       Commercial fu         11       31409.6861       5.61603297       0.5616033       31715.7599       Commercial fu         12       CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags | el<br>el<br>el<br>el<br>el                             | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu             | 3133462<br>4045123<br>499<br>1777042<br>511059<br>s Grass Leaves Branch<br>Emissions Emissions Factor (MT Factor | 62.98       0.0108696       0.00108         53.02       0.005       0.000         75.2       0.0111111       0.00074         70.22       0.0112       0.000         61.46       0.010989       0.00108         61.46       0.010989       0.00108         hes       Lumber       Mixed         Factor (MT       LFG         vet       CH4/wet       Capture | 87 0 kg/MMBtu<br>01 0 kg/MMBtu<br>41 0 kg/MMBtu<br>08 0 kg/MMBtu<br>99 0 kg/MMBtu<br>99 0 kg/MMBtu<br>PeruFo LFG   | ranches al Lumber<br>FG LFG<br>apture Capture Oxidation |
| 246936 3787039 Census-EIA<br>247101 3789380 2019-Duval-Commercial-Fuel-LPG-Census-Ei<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247102 3789404 Census-EIA<br>2019-Duval-Commercial-Fuel-Natural Gas-<br>247103 3789428 EIA<br>2019-Duval-Commercial-Fuel-Kerosene-Censu<br>247104 3789452 EIA<br>2019-Duval-Commercial-Fuel-Gasoline-Censu<br>247105 2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>247105 3789452 EIA<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu<br>2019-Duval-Commercial-Fuel-Propane-Censu | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>us- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>us- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Calculator | Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1<br>Scope 1 I.2.1 | Ref<br>er Factor Profiles<br>2019 Duval MSW Fact | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | EnergyActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>ActivityCommercial<br>EnergySource and<br>Activity | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.   | s cbarsanti@hanson-inc.com 2024 Jan 1<br>3 cbarsanti@hanson-inc.com 2024 Jan 1                            | 10       2019 DUVAL         62481.408       9.1826087       0.61217391       62900.7471       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       197345.437       34.0593696       3.40593696       199201.672       Commercial fu         11       214472.421       20.225615       0.4045123       215145.934       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       37.5248       0.00554444       0.00036963       37.7779963       Commercial fu         11       124783.889       19.9028704       1.4216336       125717.903       Commercial fu         11       31409.6861       5.61603297       0.5616033       31715.7599       Commercial fu         11       31409.6861       5.61603297       0.5616033       31715.7599       Commercial fu         12       CO2 (MT)       CH4 (MT)       N2O (MT)       CO2e (MT)       Tags | el<br>el<br>el<br>el<br>vaste Generated Mixeo<br>CH4/A | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | 3133462<br>4045123<br>499<br>1777042<br>511059<br>s Grass Leaves Branch<br>Emissions Emissions Emissi            | 62.98  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|                  | Residential   |  |  |                         |  |  |   |   |   |  |  |  |   |   |   |  |  |  |  |  |   |  |  |
|------------------|---|--|--|-------------------------|--|--|---|---|---|--|--|--|---|---|---|--|--|--|--|--|---|--|--|
|                  | utput Record<br>s With Co2e Inventory Record<br>3766653 2019-Duval-Residential-Elec-Census-EIA<br>3766605 2019-Duval-Residential-NG-Census-EIA<br>3766629 2019-Duval-Residential-LPG-Census-EIA<br>3766673 2019-Duval-Residential-FO-Census-EIA<br>3801690 2019-Duval-Residential-WOOD-Census-EIA | Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required) | Scope 2<br>Scope 1<br>Scope 1<br>Scope 1 | I.1.1<br>I.1.1<br>I.1.1 | Factor Profiles  | Global Warming Potential<br>D IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values | Category<br>Residential<br>Energy<br>Residential<br>Energy<br>Residential<br>Energy<br>Residential<br>Energy<br>Residential<br>Energy | Activity Source<br>Activity<br>Source and<br>Activity<br>Source and<br>Activity<br>Source and<br>Activity<br>Source and<br>Activity | ce Notes<br>American Community Surve<br>ACSST5Y2019<br>American Community Surve<br>ACSST5Y2019<br>American Community Surve<br>ACSST5Y2019<br>American Community Surve<br>ACSST5Y2019  | inc.com<br>ey apolematidis@hanson-<br>inc.com<br>ey apolematidis@hanson-<br>inc.com<br>apolematidis@hanson-<br>inc.com | Created At<br>2023 Dec 26<br>11:10pm<br>2023 Dec 26<br>10:47pm<br>2023 Dec 26<br>11:04pm<br>2023 Dec 26<br>11:45pm<br>2024 Jan 17<br>08:46pm | 2223939.29 142.<br>40371.0928 3.<br>17771.5402 3.06<br>9606.07272 1.41 | .058865 18.0802<br>.807157 0.07614<br>5714696 0.3067<br>1176087 0.09411 | 2<br>2192 2232708.19 [<br>2<br>4314 40497.8712 [<br>2<br>7147 17938.6997 [<br>1739 9670.54313 | ags<br>019 RESIDENTIAL<br>0UVAL Electricity<br>019 RESIDENTIAL<br>0UVAL natural gas<br>019 RESIDENTIAL<br>0UVAL LPG<br>2019<br>2019 RESIDENTIAL | Equivalent (MMBtu) Fac<br>0.1<br>761431.4<br>282177.52 | ssions Emissions                                       | nits Factor Factor Un<br>tu<br>u 0 kg/MMBtu<br>u 0 kg/MMBtu<br>u 0 kg/MMBtu                      | its Factor Factor Un<br>7.3096E-06 MT/MMBt<br>0.005 kg/MMBtu<br>0.01086957 kg/MMBtu<br>0.01086957 kg/MMBtu | u 9.303E-07 MT/MME<br>0.0001 kg/MMB<br>0.001087 kg/MMB<br>0.0007246 kg/MMB | Factor<br>Btu BE.2.1<br>au BE.1.1<br>au BE.1.2<br>au BE.1.2 | Biogenic<br>CO2<br>Emissions<br>Factor Units<br>19434429 |  |
|                  | Transportation  |  |  |                         |  |  |   |   |   |  |  |  |   |   |   | Fos  | sil Fuel   |  | Biogenic Biogenic  |  |   | US   |  |
|                  | utput Record<br>s With Co2e Inventory Record  | Calculator   | Gpc Scop                                 | GPC Re<br>be Number     |  | Global Warming Potential   | Category  | Activity Sour   | ce Notes<br>The above data is pulled<br>from Google's Environment<br>Insights platform for Duval<br>County and calculated<br>through ClearPath's  |  | Created At   | CO2 (MT) CH4 (   | (MT) N2O (MT  | 2   | ags<br>019 DUVAL<br>ransportation Gasoline  | Ene<br>Equ<br>On Road VMT (MM                          | ergy Biofuel<br>nivalent Energy<br>//Btu) (MMBtu)      | CO2 CO2<br>Emissions Emissions<br>Factor Factor Un   | CO2 CO2<br>Emissions Emissions   |  | N2O<br>s Emissions<br>nits Factor                           |  | nmunit Ene<br>otocol Equ<br>erence (MN |
| 245984           | 3768163 2019-Duval-Transportation-Gasoline-GEI  | On Road Transportation (USCP Required)   | Scope 1                                  | II.1.1                  | National Defaults<br>(updated 2020)  | IPCC 5th Assessment 100<br>Year Values   | Transportat<br>n & Mobile<br>Sources  |   | guidance documentation an<br>spreadsheet.<br>The above data is pulled<br>from Google's Environment  | mcoalson@hanson-inc.cor<br>al  | 2024 Jan 2<br>m 05:23pm  | 2368309.65 112.  | .759082 61.3622   | G   | SEI 2019 DUVAL<br>ransportation Gasoline  | 5784522314 33  | 717392.5   | 0 0.07024 MT/MMB   | tu 0.0684136 MT/MMBt   | u 1.949E-08 MT/mile  | 1.061E-   | 08 MT/mile TR.1.   | .A                                     |
| 246130           | 3771527 2019-Duval-Transportation-Diesel-GEI  | On Road Transportation (USCP<br>Required)  | Scope 1                                  | II.1.1                  | FRCC All (FRCC) eGRII<br>2019 and 2019 US<br>National Defaults<br>(updated 2020) | D<br>IPCC 5th Assessment 100<br>Year Values  | Transportat<br>n & Mobile<br>Sources  | io<br>Source and<br>Activity  | Insights platform for Duval<br>County and calculated<br>through ClearPath's<br>guidance documentation an<br>spreadsheet.<br>Where available   |  | 2024 Jan 4<br>m 10:48pm  | 881370.55 2.75   | 5589775 2.6325  |   | 019 Diesel<br>ransportation DUVAL   | 599091275.9 11   | 920967.3   | 0 0.07393448 MT/MMB  | tu 0.07377323 MT/MMBt  | u 4.6E-09 MT/mile  | 4.394E-   | 09 MT/mile TR.2.   | 2.C                                    |
| 247843           | 3800620 2019-Duval-Rail-Diesel-FDOT<br>AFOLU  | Rail Transportation (USCP<br>Recommended)  | Scope 1                                  | 11.2.1                  | FRCC All (FRCC) eGRII<br>2019  | D IPCC 5th Assessment 100<br>Year Values   | Transportat<br>n & Mobile<br>Sources  | io<br>Source and<br>Activity  | Sustainability or ESG<br>reports were used to<br>determine Total GHG<br>Emissions in units of Metric<br>Tons of CO2e. Sustainabilit<br>or ESG reports were<br>available for the following<br>Railroad Companies and ar<br>attached: CSX, Union<br>Pacific, Norfolk Southern.<br>Where Sustainability or ESG<br>reports were not available<br>the AVG emissions per mile<br>of track and AVG gallons o<br>diesel per mile of track in<br>the given County was used<br>to calculate the total annual<br>gallons Diesel and annual<br>GHG emissions. All data is<br>based off the 2019 year. | ty<br>re<br>G<br>e<br>f  | 2024 Jan 17<br>m 05:43pm   | 18061  |   | E<br>18061 2  | DUVAL Rail Diesel   |  |  | 0 MT/MMB1  | tu   | 0 MT/MME   | ßtu   | 0 MT/MMBtu   | 35                                     |
|                  |   |  |  |                         |  |  |   |   |   |  |  |  |   |   |   | Can<br>Area<br>Trea<br>Outa                            | a of   | ty   |  |  |   |  |  |
| ld Ids           | utput Record<br>s With Co2e Inventory Record  | Calculator<br>Emissions and Removals from  |  |                         | ef<br>· Factor Profiles  | Global Warming Potential<br>IPCC 5th Assessment 100  | Category  | Activity Source   | LEARN Report 2016-2019  | Created By   | 2024 Jan 5   | CO2 (MT) CH4 (   | (MT) N2O (MT  |   | ags   | Land Area (hectares Fore<br>/ year) (hec               |  |  |  |  |   |  |  |
| 246286<br>246287 | 3774361 2019-Duval-County-AFOLU-Undisturbed Fore<br>2019-Duval-County-AFOLU-Forest to<br>3774365 Grassland  | Emissions and Removals from<br>Forests (USCP Recommended)  | -  | V.2<br>V.2              |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU<br>AFOLU  |   | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com   | 2024 Jan 5<br>08:46pm  |  |   |   | 019 AFOLU Duval   | 77880<br>1747  |  |  |  |  |   |  |  |
| 246288           | 2019-Duval-County-AFOLU-Non-Forest to<br>3774369 Forest<br>2019-Duval-County-AFOLU-Forest to  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from   | Scope 1                                  | V.2                     |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU   |   | LEARN Report 2016-2019<br>(Gainesville reference)<br>LEARN Report 2016-2019   | rvolenec@hanson-inc.com  | 2024 Jan 5<br>08:47pm<br>2024 Jan 5  |  |   | 2   | 019 AFOLU Duval   | 3230   |  |  |  |  |   |  |  |
| 246289           | 3774373 Settlement<br>2019-Duval-County-AFOLU-Forest to Other   | Forests (USCP Recommended)<br>Emissions and Removals from  | •  |                         |  | Year Values<br>IPCC 5th Assessment 100   | AFOLU   |   | (Gainesville reference)<br>LEARN Report 2016-2019   | rvolenec@hanson-inc.com  | n 08:48pm<br>2024 Jan 5  |  |   |   | 019 AFOLU Duval   | 916  |  |  |  |  |   |  |  |
| 246290<br>246291 | 3774377 Non-Forest<br>3774381 2019-Duval-County-AFOLU-Forest to Wetlan  | Forests (USCP Recommended)<br>Emissions and Removals from<br>Forests (USCP Recommended)  |  | V.2<br>V.2              |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU<br>AFOLU  |   | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)  | rvolenec@hanson-inc.com<br>rvolenec@hanson-inc.com   | 2024 Jan 5   |  |   |   | 019 AFOLU Duval   | 60<br>425  |  |  |  |  |   |  |  |
|                  | 3774387 2019-Duval-County-AFOLU-Outside of Fores  | Emissions and Removals from<br>Trees Outside of Forests (USCF  | D  |                         |  | IPCC 5th Assessment 100<br>Year Values   |   |   | LEARN Report 2016-2019  |  | 2024 Jan 5   |  |   |   |   |  | 23875  |  |  |  |   |  |  |
| 246292<br>247793 | 2019-Duval-County-AFOLU-Enteric<br>3799843 Fermentation   | ts Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)   | Scope 1<br>Scope 1                       |                         |  | IPCC 5th Assessment 100<br>Year Values   | AFOLU<br>AFOLU  | Source  | (Gainesville reference)<br>2017 USDA Agricultural<br>Census   | rvolenec@hanson-inc.com  | 2024 Jan 16  | 0  | 1077.43   |   | 019 AFOLU Duval   |  | 23075<br>A.1   |  |  |  |   |  |  |
| 248455           | x2019-Duval-County-AFOLU-Enteric<br>3811223 Fermentation  | Emissions from Agricultural<br>Activities (USCP optional)  | Scope 1                                  | V.1                     |  | IPCC 5th Assessment 100<br>Year Values   | AFOLU   | Source  | 2017 USDA Agricultural<br>Census (AR5 GWP = 28)   | rvolenec@hanson-inc.com  | 2024 Jan 22<br>0 07:27am   | 0  | 30168   | 0 844704  |   |  | A.1  |  |  |  |   |  |  |
| 246913           | Commercial<br>3786632 2019-Duval-Commercial-Elec-Census-EIA   | Emissions from Grid Electricity<br>(USCP Required)   | Scope 2                                  | 1.2.2                   | FRCC All (FRCC) eGRII<br>2019  | D IPCC 5th Assessment 100<br>Year Values   | Commercial<br>Energy  | Activity  | The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | s<br>cbarsanti@hanson-inc.cor  | ·  | 2352269.58 150.  | .256237 19.1235   | 5211 2361544.49 C   | 019 DUVAL<br>Commercial Electricity   | 20555873.72 0.1  | 1443297 MT/MMB   | tu 7.3096E-06 MT/MMB   | tu 9.3032E-07 MT/MMBt  | u BE.2.1   |   |  |  |
| 246936           | 2019-Duval-Commercial-Fuel-Distillate Fuel 0<br>3787039 Census-EIA  | Dil- Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1                                  | 1.2.1                   |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy  | Source and<br>Activity  | Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy   | S  | 2024 Jan 10<br>n 08:33pm<br>2024 Jan 11  |  | 1826087 0.61217   | 7391 62900.7471 C   | 019 DUVAL<br>Commercial fuel<br>019 DUVAL   |  | kg/MMBt  | u kg/MMBtu   | ս kg/MMBtu   | ı 844  | 300 73.   | 96 0.0108696 0.00  | )0725                                  |
| 247101           | 3789380 2019-Duval-Commercial-Fuel-LPG-Census-E<br>2019-Duval-Commercial-Fuel-Natural Gas-  |  | Scope 1                                  | I.2.1                   |  | Year Values  | Energy  | Activity  | Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy   |  |  | 197345.437 34.0  | 0593696 3.40593   | 3696 199201.672 C   |   |  | kg/MMBt  | u kg/MMBtu   | u kg/MMBtu   | ı 3133   | 462 62.   | 98 0.0108696 0.00  | )1087                                  |
| 247102           | 3789404 Census-EIA  | Combustion (USCP Required)   | Scope 1                                  | I.2.1                   |  | Year Values  | Energy  | Activity  | Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   |  | n 01:45pm  | 214472.421 20.   | .225615 0.4045  | 5123 215145.934 C   | Commercial fuel   |  | kg/MMBt  | u kg/MMBtu   | ս kg/MMBtu   | u 4045   | 123 53.   | 02 0.005 0.  | .0001                                  |
| 247103           | 2019-Duval-Commercial-Fuel-Kerosene-Cens<br>3789428 EIA   | Combustion (USCP Required)   | Scope 1                                  | I.2.1                   |  | IPCC 5th Assessment 100<br>Year Values   | Energy  | Source and<br>Activity  | Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   |  |  | 37.5248 0.00   | 0554444 0.00036   | 6963 37.7779963 C   |   |  | kg/MMBt  | u kg/MMBtu   | u kg/MMBtu   |  | 499 75  | 5.2 0.0111111 0.00                                       | )0741                                  |
| 247104           | 2019-Duval-Commercial-Fuel-Gasoline-Cens<br>3789452 EIA   | Combustion (USCP Required)   | Scope 1                                  | I.2.1                   |  | IPCC 5th Assessment 100<br>Year Values   | Commercial<br>Energy  | Activity  | Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   |  |  | 124783.889 19.9  | 9028704 1.4216  | 6336 125717.903 C   |   |  | kg/MMBt  | u kg/MMBtu   | ս kg/MMBtu   | ı 1777   | 042 70.   | 22 0.0112 0.   | .0008                                  |
| 247105           | 2019-Duval-Commercial-Fuel-Propane-Censu<br>3789476 EIA   | us- Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1                                  | l.2.1                   |  | IPCC 5th Assessment 100<br>Year Values   | Commercial<br>Energy  | Source and Activity   | Profile and Energy<br>Estimates" for Florida.   | cbarsanti@hanson-inc.cor   | 2024 Jan 11<br>n 01:47pm   | 31409.6861 5.61  | 1603297 0.5616  | 2<br>6033 31715.7599 C  | 019 DUVAL<br>Commercial fuel  |  | kg/MMBt  | u kg/MMBtu   | u kg/MMBtu   | 511  | 059 61.   | 46 0.010989 0.00   | )1099                                  |
|                  | Solid Waste<br>utput Record   |  |  | GPC Re                  |  |  |   | A   |   |  |  |  |   |   |   | Emi<br>Fac<br>Waste Generated CH4                      | ssions Emissions<br>tor (MT Factor (M<br>4/wet CH4/wet | er Office Paper Cardboard<br>s Emissions Emissions<br>1T Factor (MT Factor (M<br>CH4/wet CH4/wet | Emissions Emissions<br>T Factor (MT Factor (M<br>CH4/wet CH4/wet   | Emissions Emissior<br>T Factor (MT Factor (N<br>CH4/wet CH4/wet            | /T Factor (M<br>CH4/wet                                     | CH4/wet Captu  | W Nev<br>i er L<br>ture Cap            |
|                  | s With Co2e Inventory Record<br>2019 Duval County Solid Waste Landfill Wast   | Calculator<br>te Landfilled Waste (USCP Require  |  | be Number               | Factor Profiles  | Global Warming Potential<br>r IPCC 5th Assessment 100  | Category  | Activity Sour   | ce Notes  | Created By   | Created At<br>2024 Jan 10  | CO2 (MT) CH4   | (MT) N2O (MT  | Г) СО2е (МТ) Т  | ags   | (wet tons) show  | rt ton) short ton)                                     | short ton) short ton)  | short ton) short ton)  | short ton) short tor   | ) short ton)  | short ton) Rate  | e (%) Rat                              |
| 246914           | 3786673 Generator   | Preferred, where applicable)   | Scope 1                                  | III.1.1                 | Set  | Year Values  | Solid Waste   | e Source  |   | avo@hanson-inc.com   | 07:32pm  |  | 72.9422   | 360442.381  |   | 2752896  | 0.0648 0.  | 042 0.1556 0.10  | 0.0476 0.06  | 948 0.0228 0.  | 0.0   | 58 0.0068  | 60                                     |

### Duval County 2019 Detailed GHG Inventory

### unit Energy ocol Equivalent nce (MMBtu)

### 356606.9

### 00725 0 kg/MMBtu

### 0 kg/MMBtu

### 0.0001 0 kg/MMBtu

### 00741 0 kg/MMBtu

### 0.0008 0 kg/MMBtu

### 01099 0 kg/MMBtu

Industrial

|         | Output Record   |  |           | GPC Ref              |  |                        |              |   |                        |                             |              |             |   | Energy Equivalent | CO2<br>Emissions |                 | H4 CH4<br>missions Emis | 4 N2O<br>issions Emissions | N2O C           | D2 CO<br>nissions Em | nissions Protocol    |
|---------|---|--|-----------|----------------------|--|------------------------|--------------|---|------------------------|-----------------------------|--------------|-------------|---|-------------------|------------------|-----------------|-------------------------|----------------------------|-----------------|----------------------|----------------------|
| ld      | Ids With Co2e Inventory Record                            | Calculator<br>Emissions from Stationary Fuel                 | Gpc Scope | Number Factor Profil | es Global Warming Potential<br>IPCC 5th Assessment 100 | Category<br>Industrial | Activity Sou | rce Notes   | Created By             | Created At C<br>2024 Jan 11 | :O2 (MT) CH4 | (MT) N2O (I | MT) CO2e (MT) Tags<br>2019 - Duval -          | (MMBtu)           | Factor           | Factor Units Fa | ctor Fac                | ctor Units Factor          | Factor Units Fa | ictor Fac            | ctor Units Reference |
| 24712   | 8 3790012 Symrise - Natural Gas                           | Combustion (USCP Required)                                   | Scope 1   | I.3.1                | Year Values  | Energy                 | Source       | Fuel: Biogenic Process  | greilly@hanson-inc.com | 04:42pm                     | 29091.4      | 0.55        | 0.055 29121.375 Industrial                    |                   | 0                | 0 MT/MMBtu      | 0 MT/                   | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
|         |   | Emissions from Stationary Fuel                               |           |                      | IPCC 5th Assessment 100                                | Industrial             |              | Derived Fuel (PDF) (Blend   |                        | 2024 Jan 12                 |              |             | 2019 - Duval -                                |                   |                  |                 |                         |                            |                 |                      |                      |
| 24728   | 1 3791429 Symrise - Biogenic Process Derived Fuel         | Combustion (USCP Required)                                   | Scope 1   | I.3.1                | Year Values  | Energy                 | Source       | (liquid))<br>HAVE NOT BEEN<br>INCLUDED Glass<br>Manufacturing: -Furnace 4 :<br>CO2 Emissions = 7596 | greilly@hanson-inc.com | 02:07pm                     | 12915.4      | 0.52        | 0.103 12957.255 Industrial                    |                   | 0                | 0 MT/MMBtu      | 0 MT/                   | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
|         | Analysis Olympic Container Company time. Direct           |  |           |                      |  | La dura tala l         |              | (Metric Tons) -Furnace 3 :  |                        | 0004 1 40                   |              |             |   |                   |                  |                 |                         |                            |                 |                      |                      |
| 0.470   | Anchor Glass Container Corporation - Plant (              | <b>J</b>   | Coore 1   | 104                  | IPCC 5th Assessment 100                                | Industrial             | Courses      | CO2 Emissions = $11160.6$   |                        | 2024 Jan 12                 | 40400.0      | 05 40       | 2019 - Duval -                                | 040000            | 4                | 0 MT/MMBtu      |                         | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
| 24728   | 2 3791447 Stationary Combustion                           | Combustion (USCP Required)                                   | Scope 1   | 1.3.1                | Year Values<br>IPCC 5th Assessment 100                 | Energy                 | Source       | (Metric Tons)   | greilly@hanson-inc.com | 02:11pm                     | 48120.2      | 25.48       | 24.115 55224.115 Industrial<br>2019 - Duval - | 912932            | .1               |                 | U WIT/                  | /IVIIVIBtu                 |                 | 0                    | 0                    |
| 24728   | 5 3791486 IFF Chemical Holdings Inc Used Oil              | Emissions from Stationary Fuel<br>Combustion (USCP Required) | Scope 1   | I.3.1                |  | Industrial<br>Energy   | Source       | Fuel: Used Oil  | arailly@banaan ing aam | 2024 Jan 12<br>02:16pm      | 11691.5      | 0.47        | 0.095 11729.835 Industrial                    |                   | 0                | 0 MT/MMBtu      |                         | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
| 24720   | 5 3791400 IFF Chemical Holdings Inc Used Oli              | Compussion (USCP Required)                                   | Scope 1   | 1.3.1                | Year Values  | Energy                 | Source       | Iron and Steel Production<br>(NOT INCLUDED) Fuel:   | greilly@hanson-inc.com | 02. ropm                    | 11691.5      | 0.47        | 0.095 11729.835 industrial                    |                   | 0                |                 | 0 1017                  | ΛΜΜΒία                     |                 | 0                    | 0                    |
|         |   | Emissions from Stationary Fuel                               |           |                      | IPCC 5th Assessment 100                                | Industrial             |              | "Not Stated" Emissions:   |                        | 2024 Jan 12                 |              |             | 2019 - Duval -                                |                   |                  |                 |                         |                            |                 |                      |                      |
| 24728   | 7 3791507 CMC Steel Florida - Natural Gas                 | Combustion (USCP Required)                                   | Scope 1   | I.3.1                | Year Values  | Energy                 | Source       | 58290.6 (Metric Tons)   | greilly@hanson-inc.com | 02:28pm                     | 43066.7      | 0.81        | 0.081 43110.845 Industrial                    |                   | 0                | 0 MT/MMBtu      | 0 MT                    | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
|         |   | Emissions from Stationary Fuel                               |           |                      | IPCC 5th Assessment 100                                | Industrial             |              |   |                        | 2024 Jan 12                 |              |             | 2019 - Duval -                                |                   |                  |                 |                         |                            |                 |                      |                      |
| 24728   | 8 3791525 Trail Ridge Landfill Inc Distillate Fuel Oil No | b. 2 Combustion (USCP Required)                              | Scope 1   | I.3.1                | Year Values  | Energy                 | Source       |   | greilly@hanson-inc.com | 02:36pm                     | 1041.2       | 0.04        | 0.008 1044.44 Industrial                      |                   | 0                | 0 MT/MMBtu      | 0 MT/                   | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
|         |   |  |           |                      |  |                        |              | This company also produces  | 3                      |                             |              |             |   |                   |                  |                 |                         |                            |                 |                      |                      |
|         |   |  |           |                      |  |                        |              | 2,402.87 (Metric Tons) of   |                        |                             |              |             |   |                   |                  |                 |                         |                            |                 |                      |                      |
| 0.40.44 | WestRock CP, LLC - Seminole Mill - Natural                |  | 0         |                      | IPCC 5th Assessment 100                                | Industrial             | 0            | Methane, but it's from an   |                        | 2024 Jan 22                 | 055700 5     | 4.00        | 2019 - Duval -                                |                   | 0                |                 | 0 MT                    |                            |                 | 0                    | 0                    |
| 2484    | 2 3811177 Gas   | Combustion (USCP Required)                                   | Scope 1   | 1.3.1                | Year Values  | Energy                 | Source       | Industrial Waste Landfill.  | greilly@hanson-inc.com | 04:23am                     | 255799.5     | 4.82        | 0.482 256062.19 Industrial                    |                   | 0                | 0 MT/MMBtu      | 0 MT/                   | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
| 24044   | 0 3811296 Anheuser-Busch LLC - Natural Gas                | Emissions from Stationary Fuel<br>Combustion (USCP Required) | Coore 1   | 104                  | IPCC 5th Assessment 100                                | Industrial             | Courses      |   |                        | 2024 Jan 22<br>02:54pm      |              | 1.00        | 2019 - Duval -                                |                   | 0                |                 |                         | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
| 24846   | 0 3811296 Anneuser-Busch LLC - Natural Gas                |  | Scope 1   | 1.3.1                | Year Values  | Energy                 | Source       |   | greilly@hanson-inc.com | •                           | 54118.4      | 1.02        | 0.102 54173.99 Industrial                     |                   | 0                | 0 MT/MMBtu      | 0 101 17                | /MIMBtu                    |                 | 0                    | 0                    |
| 24846   | 3811314 Anheuser-Busch LLC - Other Biomass Gase           | Emissions from Stationary Fuel                               | Scope 1   | 124                  | IPCC 5th Assessment 100                                | Industrial             | Source       | Eucl: Other Biomaga Casaa   | arailly@banaan ing aam | 2024 Jan 22<br>03:05pm      | 5034.5       | 0.31        | 2019 - Duval -<br>0.061 5059.345 Industrial   |                   | 0                | 0 MT/MMBtu      |                         | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
| 24646   | 3611314 Anneuser-Busch LLC - Other Biomass Gases          |  | Scope 1   | 1.3.1                | Year Values  | Energy                 | Source       | Fuel: Other Biomass Gases   | greiny@hanson-inc.com  | •                           | 5034.5       | 0.31        |   |                   | 0                |                 | 0 101 17                | /MIMBLU                    |                 | 0                    | 0                    |
| 24940   | 2 3811332 US GYPSUM - Jacksonville Plant - Natural G      | Emissions from Stationary Fuel                               | Scope 1   | 1.3.1                | IPCC 5th Assessment 100<br>Year Values                 |                        | Source       |   | arailly@banaan ing aam | 2024 Jan 22<br>03:07pm      | 41601        | 0.78        | 2019 - Duval -<br>0.078 41643.51 Industrial   |                   | 0                | 0 MT/MMBtu      |                         | /MMBtu                     | 0 MT/MMBtu      | 0                    | 0                    |
| 24846   | 2 3811332 US G PSUM - Jacksonville Plant - Natural G      |  | Scope 1   | 1.3.1                |  | Energy                 | Source       |   | greilly@hanson-inc.com |                             | 41601        | 0.78        |   |                   | 0                |                 | 0 101 17                | /MIMBLU                    |                 | 0                    | 0                    |
| 0404/   | 2 2011250 IEE Chamical Haldings Inc. Natural Cas          | Emissions from Stationary Fuel                               | Seene 1   | 104                  | IPCC 5th Assessment 100                                | Industrial             | Source       |   | areilly@hanaan ing aam | 2024 Jan 22                 | 24407 6      | 0.46        | 2019 - Duval -                                |                   | 0                |                 |                         |                            |                 | 0                    | 0                    |
| 24846   | 3 3811350 IFF Chemical Holdings Inc Natural Gas           | Combustion (USCP Required)                                   | Scope 1   | 1.3.1                | Year Values  | Energy                 | Source       |   | greilly@hanson-inc.com | 03:11pm                     | 24497.6      | 0.46        | 0.046 24522.67 Industrial                     |                   | U                | 0 MT/MMBtu      |                         | /MMBtu                     | 0 MT/MMBtu      | U                    | 0                    |

### Duval County 2019 Detailed GHG Inventory

### Residential

|  | Residential  |   |  |  |  |   |  |  |  |   |   |   |  |  |  |  |  |
|--|--|---|--|--|--|---|--|--|--|---|---|---|--|--|--|--|--|
| 0  | utput Record   |   |  | GPC Ref  |  |   |  |  |  |   |   |   | CO2 CO2<br>Electricity Energy Emissions Emissions  | CH4 CH4<br>Emissions Emissions   | US<br>N2O N2O Comm<br>Emissions Emissions Protoc   | unity Energy C   | iogenic Biogenic<br>O2 CO2<br>missions Emissions   |
|  | s With Co2e Inventory Record   | Calculator  | Gpc Scope                                | Number   | Factor Profiles<br>Florida Power and Light                         | Global Warming Potential  | Category   | Activity Sourc   |  | Created By Created At   | CO2 (MT) CH4 (MT)   | N2O (MT) CO2e (MT) Tags   | Equivalent (MMBtu) Factor Factor Unit  |  |  |  | actor Factor Units   |
| 246095   | 3770845 2019-Nassau-County-Residential-Energy-FPL  | Emissions from Grid Electricity<br>(USCP Required)  | Scope 2                                  |  | 2019 (FPL and<br>eGRID2018 factors)                                | IPCC 5th Assessment 100<br>Year Values  | Residential<br>Energy  | Activity   | American Community Survey<br>ACSST5Y2019   | rvolenec@hanson-inc.com 09:24pm   |   | 2019 Nassau<br>2.06336752 153430.404 RESIDENTIAL FPL  | 1725044.106 0.08838031 MT/MMBtu  | u 8.7716E-06 MT/MMBtu  | 1.1961E-06 MT/MMBtu BE.2.1   |  |  |
| 247905   | 3801754 2019-Nassau-County-Residential-Fuel-NGas   | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1                                  | I.1.1  |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100   | Residential<br>Energy<br>Residential   | Source and<br>Activity   | American Community Survey<br>ACSST5Y2019<br>American Community Survey  | rvolenec@hanson-inc.com 08:49pm   |   | 2019 RESIDENTIAL<br>0.00675864 3594.683 Nassau fuel<br>2019 RESIDENTIAL   | 53.02 kg/MMBtu   | 0.005 kg/MMBtu   | 0.0001 kg/MMBtu BE.1.1   | 67586.38   | 0 kg/MMBtu   |
| 247906   | 3801778 2019-Nassau-County-Residential-Fuel-FuelOil  |   | Scope 1                                  | I.1.1  |  | Year Values<br>IPCC 5th Assessment 100  | Energy<br>Residential  | Source and<br>Activity<br>Source and   | ACSST5Y2019<br>American Community Survey   | rvolenec@hanson-inc.com 08:49pm   |   | 0.00028809 29.6016217 Nassau fuel<br>2019 RESIDENTIAL   | 73.96 kg/MMBtu   | 0.01086957 kg/MMBtu  | 0.00072464 kg/MMBtu BE.1.2   | 397.57   | 0 kg/MMBtu   |
| 247907   | 3801802 2019-Nassau-County-Residential-Fuel-LPG  | Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1                                  | l.1.1  |  | Year Values<br>IPCC 5th Assessment 100  | Energy<br>Residential  | Activity<br>Source and   | ACSST5Y2019<br>American Community Survey   | rvolenec@hanson-inc.com 08:50pm   | 1577.44243 0.27224696   | 0.0272247 1592.27988 Nassau fuel<br>2019 RESIDENTIAL  | 62.98 kg/MMBtu   | 0.01086957 kg/MMBtu  | 0.00108696 kg/MMBtu BE.1.2   | 25046.72   | 0 kg/MMBtu   |
| 247908   | 3801826 2019-Nassau-County-Residential-Fuel-Wood   | Combustion (USCP Required)  | Scope 1                                  | l.1.1  |  | Year Values   | Energy   | Activity   | ACSST5Y2019  | rvolenec@hanson-inc.com 08:51pm   |   | 0.00500934 11.8804847 Nassau fuel   | 0 kg/MMBtu   | 0.316 kg/MMBtu   | 0.0042 kg/MMBtu BE.1.2   | 1192.7   | 93.8 kg/MMBtu  |
|  | Transportation   |   |  |  |  |   |  |  |  |   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  |  |   |   |   | Fossil Fuel  |  | Biogenic Biogenic  | 0.14   | US   |
|  | utput Record<br>s With Co2e Inventory Record   | Calculator  | Gpc Scope                                | GPC Ref<br>Number                                  | Factor Profiles  | Global Warming Potential  | Category   | Activity Sourc   | e Notes  | Created By Created At   | CO2 (MT) CH4 (MT)   | N2O (MT) CO2e (MT) Tags   | Energy Biofuel<br>Equivalent Energy<br>On Road VMT (MMBtu) (MMBtu)                           | CO2 CO2<br>Emissions Emissions<br>Factor Factor Units  | CO2 CO2 CH4<br>Emissions Emissions Emissi<br>s Factor Factor Units Factor                    | ons Emissions E  | 20 N2O Communit Ene<br>missions Emissions y Protocol Equ<br>actor Factor Units Reference (MI   |
|  |  |   |  |  | Florido Dower and Light  |   |  |  | The above data is pulled   | , I   |   |   |  |  |  |  |  |
|  |  |   |  |  | Florida Power and Light<br>2019 (FPL and<br>eGRID2018 factors) and |   |  |  | from Google's Environmenta<br>Insights platform for Nassau<br>County and calculated  |   |   |   |  |  |  |  |  |
|  |  | On Road Transportation (USCP  |  |  | 2019 US National<br>Defaults (updated                              | IPCC 5th Assessment 100   | Transportat<br>n & Mobile  |  | through ClearPath's<br>guidance documentation and  | 2024 Jan 3  |   | 2019 Gasoline   |  |  |  |  |  |
| 246037   | 3769770 2019-Nassau-Transportation-Gasoline-GEI  |   | Scope 1                                  |  | 2020)  | Year Values   | Sources  | Activity   |  | mcoalson@hanson-inc.com 09:36pm   | 545004.562 25.9485553   | 14.1209093 549473.162 transportation Nassau   | 1331156611 7759176.56  | 0 0.07024 MT/MMBtu   | 0.0684136 MT/MMBtu 1.94  | E-08 MT/mile   | 1.061E-08 MT/mile TR.1.A   |
|  |  |   |  |  | Florida Power and Light  |   |  |  | The above data is pulled from Google's Environmenta  |   |   |   |  |  |  |  |  |
|  |  |   |  |  | 2019 (FPL and<br>eGRID2018 factors) and<br>2019 US National        |   | Transportat  | 0  | Insights platform for Nassau<br>County and calculated<br>through ClearPath's   |   |   |   |  |  |  |  |  |
| 246135   | 3771624 2019-Nassau-Transportation-Diesel-GEI  | On Road Transportation (USCP Required)  | Scope 1                                  |  | Defaults (updated 2020)  | IPCC 5th Assessment 100<br>Year Values  | n & Mobile<br>Sources  | Source and<br>Activity   | guidance documentation and spreadsheet.  | d 2024 Jan 4<br>mcoalson@hanson-inc.com 10:56pm   | 202824.394 0.63419783   | 2019 transportation<br>0.60581966 203002.694 Diesel Nassau  | 137865197.7 2743299.02   | 0 0.07393448 MT/MMBtu  | 0.07377323 MT/MMBtu 4.0  | E-09 MT/mile   | 4.394E-09 MT/mile TR.2.C   |
|  |  |   |  |  | ,  |   |  | , and the second s |  |   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | Where available<br>Sustainability or ESG   |   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | reports were used to<br>determine Total GHG  |   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | Emissions in units of Metric<br>Tons of CO2e. Sustainability<br>or ESG reports were  | /   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | available for the following<br>Railroad Companies and are  | 2   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | attached: CSX, Union<br>Pacific, Norfolk Southern.   |   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | Where Sustainability or ESG<br>reports were not available  | 3   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | the AVG emissions per mile<br>of track and AVG gallons of  |   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | diesel per mile of track in<br>the given County was used   |   |   |   |  |  |  |  |  |
|  |  |   |  |  | Florida Power and Light  |   | Transportat  | 0  | to calculate the total annual gallons Diesel and annual  |   |   |   |  |  |  |  |  |
| 247845   | 3800654 2019-Nassau-Rail-Diesel-FDOT   | Rail Transportation (USCP<br>Recommended)   | Scope 1                                  | II.2.1   | 2019 (FPL and eGRID2018 factors)                                   | IPCC 5th Assessment 100<br>Year Values  | n & Mobile<br>Sources  | Source and<br>Activity   | GHG emissions. All data is based off the 2019 year.  | 2024 Jan 17<br>mcoalson@hanson-inc.com 05:44pm  | 8867  | 2019,Nassau,Rail,Dies<br>8867 el  |  | 0 MT/MMBtu   |  | 0 MT/MMBtu   | 0 MT/MMBtu 17  |
|  | AFOLU  |   |  |  |  |   |  |  |  |   |   |   | Canopy   |  |  |  |  |
|  |  |   |  |  |  |   |  |  |  |   |   |   | Area of<br>Trees US  |  |  |  |  |
|  | utput Record   |   |  | GPC Ref  |  |   |  |  |  |   |   |   | Outside Community<br>Land Area (hectares Forest Protocol                                     |  |  |  |  |
|  | s With Co2e Inventory Record<br>2019-Nassau-County-AFOLU-Undisturbed   | Calculator<br>Emissions and Removals from   |  |  | Factor Profiles  | Global Warming Potential<br>IPCC 5th Assessment 100   |  | Activity Sourc   | LEARN Report 2016-2019   | Created By Created At 2024 Jan 5  | CO2 (MT) CH4 (MT)   | N2O (MT) CO2e (MT) Tags   | / year) (hectares) Reference   |  |  |  |  |
| 246295<br>246297   | 3774447 Forest<br>2019-Nassau-County-AFOLU-Forest to<br>3774455 Grassland  | Forests (USCP Recommended)<br>Emissions and Removals from<br>Forests (USCP Recommended)   | ·  | V.2  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLU<br>AFOLU   |  | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)   | rvolenec@hanson-inc.com 09:25pm<br>2024 Jan 5<br>rvolenec@hanson-inc.com 09:26pm  |   | 2019 AFOLU Nassau<br>2019 AFOLU Nassau  | 101194<br>5484   |  |  |  |  |
| 246297   | 2019-Nassau-County-AFOLU-Non-Forest to<br>3774459 Forest   | Emissions and Removals from<br>Forests (USCP Recommended)   |  | V.2<br>V.2   |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  |  | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)   | rvolenec@hanson-inc.com 09.20pm<br>2024 Jan 5<br>rvolenec@hanson-inc.com 09:29pm  |   | 2019 AFOLU Nassau<br>2019 AFOLU Nassau  | 6756   |  |  |  |  |
| 246299   | 2019-Nassau-County-AFOLU-Forest to<br>3774463 Settlement   | Emissions and Removals from<br>Forests (USCP Recommended)   | ·  | V.2  |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  |  | LEARN Report 2016-2019   | rvolenec@hanson-inc.com 09:30pm   |   | 2019 AFOLU Nassau   |  |  |  |  |  |
| 246300   | 2019-Nassau-County-AFOLU-Forest to Other<br>3774467 Non-Forest   |   |  | V.2  |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  |  | (Gainesville reference)<br>(Gainesville reference)   | rvolenec@hanson-inc.com 09:31pm   |   | 2019 AFOLU Nassau   | 55   |  |  |  |  |
| 246301   | 3774471 2019-Nassau-County-AFOLU-Forest to Wetla   | Emissions and Removals from   | ·  | V.2  |  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  |  | LEARN Report 2016-2019<br>(Gainesville reference)  | 2024 Jan 5<br>rvolenec@hanson-inc.com 09:31pm   |   | 2019 AFOLU Nassau   | 413  |  |  |  |  |
|  | 2019-Nassau-County-AFOLU-Outside of  | Emissions and Removals from<br>Trees Outside of Forests (USCF   | -  |  |  | IPCC 5th Assessment 100   |  |  | LEARN Report 2016-2019   | 2024 Jan 5  |   |   |  |  |  |  |  |
| 246296   | 3774453 Forests<br>2019-Nassau-County-AFOLU-Enteric  | Recommended)<br>Emissions from Agricultural   |  | V.2  |  | Year Values<br>IPCC 5th Assessment 100  | AFOLU  |  | (Gainesville reference)<br>2017 USDA Agricultural  | rvolenec@hanson-inc.com 09:26pm<br>2024 Jan 16  |   | 2019 AFOLU Nassau   | 14575  |  |  |  |  |
| 247795   | 3799881 Fermentation<br>x2019-Nassau-County-AFOLU-Enteric  | Activities (USCP optional)<br>Emissions from Agricultural   | Scope 1                                  |  |  | Year Values<br>IPCC 5th Assessment 100  | AFOLU  | Source   | Census<br>2017 USDA Agricultural   | rvolenec@hanson-inc.com 10:17pm<br>2024 Jan 22  |   |   | A.1  |  |  |  |  |
| 248456   | 3811237 Fermentation<br>Commercial   | Activities (USCP optional)  | Scope 1                                  | V.1  |  | Year Values   | AFOLU  | Source   | Census (AR5 GWP = 28)  | rvolenec@hanson-inc.com 07:30am   | 0 32591.9   | 0 912573.2  | A.1  |  |  |  |  |
|  | Commondat  |   |  |  |  |   |  |  |  |   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | The above data is pulled<br>from the United States   |   |   |   |  |  |  |  |  |
|  |  |   |  |  |  |   |  |  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | 5   |   |   |  |  |  |  |  |
|  |  |   |  |  | Elevide Device and Liebt   |   |  |  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",   | 3   |   |   |  |  |  |  |  |
| 246915   | 3786694 2019-Nassau-Commercial-Elec-Census-ElA   | Emissions from Grid Electricity   | Scope 2                                  |  | •  | IPCC 5th Assessment 100<br>Year Values  | Commercia  |  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy  | 2024 Jan 10   |   | 2019 Nassau<br>1 04566184 77754 6009 Commercial Electricity   | 874208 1911 0 08838031 MT/MMBt   | u 8 7716E-06 MT/MMBtu  | 1 1961E-06 MT/MMBtu _ BE 2 1   |  |  |
| 246915   | 3786694 2019-Nassau-Commercial-Elec-Census-EIA   | Emissions from Grid Electricity<br>(USCP Required)  | Scope 2                                  |  | •  | IPCC 5th Assessment 100<br>Year Values  | Commercia<br>Energy  | Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled   |   |   | 2019 Nassau<br>1.04566184 77754.6009 Commercial Electricity   | 874208.1911 0.08838031 MT/MMBtu  | u 8.7716E-06 MT/MMBtu  | 1.1961E-06 MT/MMBtu BE.2.1   |  |  |
| 246915   | 3786694 2019-Nassau-Commercial-Elec-Census-EIA   |   | Scope 2                                  |  | 2019 (FPL and  |   |  |  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.   | 2024 Jan 10<br>cbarsanti@hanson-inc.com 07:34pm   |   |   | 874208.1911 0.08838031 MT/MMBtu  | u 8.7716E-06 MT/MMBtu  | 1.1961E-06 MT/MMBtu BE.2.1   |  |  |
| 246915   | 3786694 2019-Nassau-Commercial-Elec-Census-EIA   |   | Scope 2                                  |  | 2019 (FPL and  |   |  |  | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",   | 2024 Jan 10<br>cbarsanti@hanson-inc.com 07:34pm   |   |   | 874208.1911 0.08838031 MT/MMBtu  | u 8.7716E-06 MT/MMBtu  | 1.1961E-06 MT/MMBtu BE.2.1   |  |  |
|  | 2019-Nassau-Commercial-Fuel-Natural Gas-   | (USCP Required)   |  | 1.2.2  | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercia  | Activity<br>Source and   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy  | 2024 Jan 10<br>cbarsanti@hanson-inc.com 07:34pm   | 77262.7913 7.66818681   | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau   |  |  |  | 172022   | 52.02 0.005 0.0001   |
| 246915<br>246937   |  | (USCP Required)   |  |  | 2019 (FPL and  | Year Values   | Energy   | Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled   | 2024 Jan 10<br>cbarsanti@hanson-inc.com 07:34pm   | 77262.7913 7.66818681   | 1.04566184 77754.6009 Commercial Electricity  | 874208.1911 0.08838031 MT/MMBtu<br>kg/MMBtu  | u 8.7716E-06 MT/MMBtu<br>kg/MMBtu  | 1.1961E-06 MT/MMBtu BE.2.1<br>kg/MMBtu   | 172033   | 53.02 0.005 0.0001   |
|  | 2019-Nassau-Commercial-Fuel-Natural Gas-   | (USCP Required)   |  | 1.2.2  | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercia  | Activity<br>Source and   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>3<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm   | 77262.7913 7.66818681   | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau   |  |  |  | 172033   | 53.02 0.005 0.0001   |
|  | 2019-Nassau-Commercial-Fuel-Natural Gas-   | (USCP Required)   |  | 1.2.2  | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercia  | Activity<br>Source and   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>3<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm   | 77262.7913 7.66818681   | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau   |  |  |  | 172033   | 53.02 0.005 0.0001   |
| 246937   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1                                  | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercia<br>Energy<br>Commercia   | Activity<br>Source and<br>Activity<br>Source and   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm  | 77262.7913 7.66818681<br>9121.18966 0.860165  | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>2019 Nassau  | kg/MMBtu   | ı kg/MMBtu   | kg/MMBtu   |  |  |
|  | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA   | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1                                  | 1.2.2  | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercia<br>Energy  | Activity<br>Source and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm  | 77262.7913 7.66818681<br>9121.18966 0.860165  | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel   |  | ı kg/MMBtu   |  | 172033   | 53.02 0.005 0.0001<br>62.98 0.0108696 0.001087   |
| 246937   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1                                  | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercia<br>Energy<br>Commercia   | Activity<br>Source and<br>Activity<br>Source and   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The  | cbarsanti@hanson-inc.com $2024 Jan 10 \\ 07:34pm$<br>cbarsanti@hanson-inc.com $2024 Jan 10 \\ 08:35pm$<br>cbarsanti@hanson-inc.com $2024 Jan 11 \\ 01:50pm$   | 77262.7913 7.66818681<br>9121.18966 0.860165  | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>2019 Nassau  | kg/MMBtu   | ı kg/MMBtu   | kg/MMBtu   |  |  |
| 246937   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1                                  | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercia<br>Energy<br>Commercia   | Activity<br>Source and<br>Activity<br>Source and   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States   | cbarsanti@hanson-inc.com $2024 Jan 10 \\ 07:34pm$<br>cbarsanti@hanson-inc.com $2024 Jan 10 \\ 08:35pm$<br>cbarsanti@hanson-inc.com $2024 Jan 11 \\ 01:50pm$   | 77262.7913 7.66818681<br>9121.18966 0.860165  | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>2019 Nassau  | kg/MMBtu   | ı kg/MMBtu   | kg/MMBtu   |  |  |
| 246937   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1                                  | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercia<br>Energy<br>Commercia<br>Energy   | Activity<br>Source and<br>Activity<br>Source and   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913   | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>2019 Nassau  | kg/MMBtu   | ı kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   |  | 62.98 0.0108696 0.001087   |
| 246937   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA   | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1                       | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercia<br>Energy<br>Commercia<br>Energy   | Activity<br>Source and<br>Activity<br>Source and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913   | 2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>2019 Nassau<br>0.14484891 8471.72044 Commercial fuel   | kg/MMBtu   | ı kg/MMBtu   | kg/MMBtu   |  |  |
| 246937<br>247106   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1                       | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy   | Activity<br>Source and<br>Activity<br>Source and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm<br>cbarsanti@hanson-inc.com 2024 Jan 11   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913   | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>0.14484891 8471.72044 Commercial fuel<br>2019 Nassau   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087   |
| 246937<br>247106   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1                       | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy   | Activity<br>Source and<br>Activity<br>Source and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm<br>cbarsanti@hanson-inc.com 2024 Jan 11   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913   | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>0.14484891 8471.72044 Commercial fuel<br>2019 Nassau   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087   |
| 246937<br>247106   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA  | (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1<br>Scope 1                       | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy   | Activity Source and Activity Source and Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm<br>cbarsanti@hanson-inc.com 2024 Jan 11   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174  | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>2019 Nassau<br>0.14484891 8471.72044 Commercial fuel<br>2019 Nassau<br>0.02603478 2675.06871 Commercial fuel   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087   |
| 246937<br>247106   | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1                       | I.2.2<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy   | Activity<br>Source and<br>Activity<br>Source and<br>Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm<br>cbarsanti@hanson-inc.com 2024 Jan 11   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174  | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>0.14484891 8471.72044 Commercial fuel<br>2019 Nassau   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087   |
| 246937<br>247106<br>247107                               | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA  | (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1<br>Scope 1                       | I.2.1<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity Source and Activity Source and Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy  | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm  | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174  | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>2019 Nassau<br>0.14484891 8471.72044 Commercial fuel<br>2019 Nassau<br>0.02603478 2675.06871 Commercial fuel<br>2019 Nassau  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725   |
| 246937<br>247106<br>247107                               | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA  | (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1<br>Scope 1                       | I.2.1<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity Source and Activity Source and Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm  | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174  | 1.04566184 77754.6009 Commercial Electricity<br>2019 Nassau<br>0.0172033 9149.83315 Commercial fuel<br>2019 Nassau<br>0.14484891 8471.72044 Commercial fuel<br>2019 Nassau<br>0.02603478 2675.06871 Commercial fuel<br>2019 Nassau  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725   |
| 246937<br>247106<br>247107                               | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA   | (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1                       | I.2.1<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity Source and Activity Source and Activity Source and Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State  | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm 2024 Jan 10<br>08:35pm 2024 Jan 10<br>08:35pm 2024 Jan 11<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>cbarsanti@hanson-inc.com 2024 Jan 11   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333   | 1.0456618477754.6009 Commercial Electricity2019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782019 Nassau0.026034782019 Nassau1.5556E-051.58985556 Commercial fuel   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725   |
| 246937<br>247106<br>247107                               | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA  | (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required) Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1<br>Scope 1<br>Scope 1            | I.2.1<br>I.2.1                                     | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity Source and Activity Source and Activity Source and Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.  | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm<br>cbarsanti@hanson-inc.com 2024 Jan 10<br>08:35pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm  | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333   | 1.0456618477754.6009 Commercial Electricity2019 Nassau2019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782675.06871 Commercial fuel1.5556E-051.58985556 Commercial fuel2019 Nassau2019 Nassau1.5556E-051.58985556 Commercial fuel  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725   |
| 246937<br>247106<br>247107<br>247108                     | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA   | (USCP Required) Emissions from Stationary Fuel Combustion (USCP Required)   | Scope 1<br>Scope 1<br>Scope 1            | I.2.1<br>I.2.1<br>I.2.1                            | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial           | Activity Source and Activity Source and Activity Source and Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States   | cbarsanti@hanson-inc.com 2024 Jan 10<br>07:34pm 2024 Jan 10<br>08:35pm 2024 Jan 10<br>08:35pm 2024 Jan 11<br>01:50pm 2024 Jan 11<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>2024 Jan 11   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333   | 1.0456618477754.6009 Commercial Electricity2019 Nassau2019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782675.06871 Commercial fuel1.5556E-051.58985556 Commercial fuel2019 Nassau2019 Nassau1.5556E-051.58985556 Commercial fuel  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | 133261<br>35928<br>21  | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725<br>75.2 0.0111111 0.000741  |
| 246937<br>247106<br>247107<br>247108                     | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA   | (USCP Required) Emissions from Stationary Fuel Combustion (USCP Required)   | Scope 1<br>Scope 1<br>Scope 1            | I.2.1<br>I.2.1<br>I.2.1                            | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial           | Activity Source and Activity Source and Activity Source and Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>P | cbarsanti@hanson-inc.com 2024 Jan 10<br>77:34pm 20<br>2024 Jan 10<br>88:35pm 20<br>88:35pm 20<br>88:35p | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333   | 1.0456618477754.6009 Commercial Electricity2019 Nassau2019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782675.06871 Commercial fuel1.5556E-051.58985556 Commercial fuel2019 Nassau2019 Nassau1.5556E-051.58985556 Commercial fuel  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | 133261<br>35928<br>21  | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725<br>75.2 0.0111111 0.000741  |
| 246937<br>247106<br>247107<br>247108                     | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1<br>Scope 1            | I.2.1<br>I.2.1<br>I.2.1                            | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>M | cbarsanti@hanson-inc.com 2024 Jan 10<br>77:34pm<br>2024 Jan 10<br>88:35pm<br>2024 Jan 10<br>88:35pm<br>10<br>2024 Jan 11<br>01:50pm<br>11<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:50pm<br>11<br>cbarsanti@hanson-inc.com 2024 Jan 11<br>01:51pm   | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333<br>5306.8765 0.84644  | 1.0456618477754.6009 Commercial Electricity0.01720339149.83315 Commercial fuel0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782019 Nassau0.026034782019 Nassau1.5556E-051.58985556 Commercial fuel1.5556E-051.58985556 Commercial fuel0.060465346.59872 Commercial fuel  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | 133261<br>35928<br>21  | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725<br>75.2 0.0111111 0.000741  |
| 246937<br>247106<br>247107<br>247108                     | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA   | (USCP Required) Emissions from Stationary Fuel Combustion (USCP Required)   | Scope 1<br>Scope 1<br>Scope 1<br>Scope 1 | I.2.1<br>I.2.1<br>I.2.1                            | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial           | Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool,    | cbarsanti@hanson-inc.com 2024 Jan 10<br>77:34pm 20<br>2024 Jan 10<br>88:35pm 20<br>88:35pm 20<br>88:35p | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333<br>5306.8765 0.84644  | 1.0456618477754.6009 Commercial Electricity2019 Nassau2019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782675.06871 Commercial fuel1.5556E-051.58985556 Commercial fuel2019 Nassau2019 Nassau1.5556E-051.58985556 Commercial fuel  | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | 133261<br>35928<br>21  | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725<br>75.2 0.0111111 0.000741  |
| 246937<br>247106<br>247107<br>247108                     | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA<br>2019-Nassau-Commercial-Fuel-Gasoline-<br>3789572 Census-EIA  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1<br>Scope 1<br>Scope 1 | I.2.1<br>I.2.1<br>I.2.1<br>I.2.1                   | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy | Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the Unit       | cbarsanti@hanson-inc.com 2024 Jan 10<br>77:34pm 2024 Jan 10<br>835pm 2024 Jan 11<br>08:35pm 2024 Jan 11<br>01:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:51pm 2024 Jan 11<br>101:51pm 2024 Jan 11  | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333<br>5306.8765 0.84644  | 1.0456618477754.6009 Commercial Electricity0.01720332019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782675.06871 Commercial fuel0.026034782675.06871 Commercial fuel1.5556E-051.58985556 Commercial fuel0.060465346.59872 Commercial fuel2019 Nassau2019 Nassau0.060462019 Nassau2019 Nassau2019 Nassau0.060462019 Nassau2019 Nassau2019 Nassau | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | 133261<br>35928<br>21<br>75575   | <ul> <li>62.98 0.0108696 0.001087</li> <li>73.96 0.0108696 0.000725</li> <li>75.2 0.0111111 0.000741</li> <li>70.22 0.0112 0.0008</li> </ul>                 |
| 246937<br>247106<br>247107<br>247108                     | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA<br>2019-Nassau-Commercial-Fuel-Gasoline-<br>3789572 Census-EIA  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1<br>Scope 1<br>Scope 1 | I.2.1<br>I.2.1<br>I.2.1<br>I.2.1                   | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy | Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the Unit       | cbarsanti@hanson-inc.com 2024 Jan 10<br>77:34pm 2024 Jan 10<br>835pm 2024 Jan 11<br>08:35pm 2024 Jan 11<br>01:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:51pm 2024 Jan 11<br>101:51pm 2024 Jan 11  | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333<br>5306.8765 0.84644  | 1.0456618477754.6009 Commercial Electricity0.01720332019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782675.06871 Commercial fuel0.026034782675.06871 Commercial fuel1.5556E-051.58985556 Commercial fuel0.060465346.59872 Commercial fuel2019 Nassau2019 Nassau0.060462019 Nassau2019 Nassau2019 Nassau0.060462019 Nassau2019 Nassau2019 Nassau | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                         | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                         | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu             | 133261<br>35928<br>21<br>21<br>21735   | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725<br>75.2 0.011111 0.000741<br>70.22 0.0112 0.0008<br>61.46 0.010989 0.001099                             |
| 246937<br>247106<br>247107<br>247108<br>247109           | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA<br>2019-Nassau-Commercial-Fuel-Gasoline-<br>3789572 Census-EIA<br>2019-Nassau-Commercial-Fuel-Gasoline-<br>3789572 Census-EIA<br>2019-Nassau-Commercial-Fuel-Propane-<br>3789596 Census-EIA<br>2019-Nassau-Commercial-Fuel-Propane-<br>3789596 Census-EIA | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1<br>Scope 1<br>Scope 1<br>Scope 1 | I.2.1<br>I.2.1<br>I.2.1<br>I.2.1                   | 2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy | Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the Unit       | cbarsanti@hanson-inc.com 2024 Jan 10<br>77:34pm 2024 Jan 10<br>835pm 2024 Jan 11<br>08:35pm 2024 Jan 11<br>01:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:50pm 2024 Jan 11<br>101:51pm 2024 Jan 11<br>101:51pm 2024 Jan 11  | 77262.7913 7.66818681<br>9121.18966 0.860165<br>8392.77778 1.44848913<br>2657.23488 0.39052174<br>1.5792 0.00023333<br>5306.8765 0.84644  | 1.0456618477754.6009 Commercial Electricity0.01720332019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782675.06871 Commercial fuel0.026034782675.06871 Commercial fuel1.5556E-051.58985556 Commercial fuel0.060465346.59872 Commercial fuel2019 Nassau2019 Nassau0.060462019 Nassau2019 Nassau2019 Nassau0.060462019 Nassau2019 Nassau2019 Nassau | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu             | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu             | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | 133261<br>35928<br>21<br>21<br>21<br>21735   | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725<br>75.2 0.011111 0.000741<br>70.22 0.0112 0.0008<br>61.46 0.010989 0.001099                             |
| 246937<br>247106<br>247107<br>247108<br>247109<br>247110 | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA<br>2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA<br>2019-Nassau-Commercial-Fuel-Distillate Fuel<br>3789524 Oil-Census-EIA<br>2019-Nassau-Commercial-Fuel-Kerosene-<br>3789548 Census-EIA<br>2019-Nassau-Commercial-Fuel-Gasoline-<br>3789548 Census-EIA<br>2019-Nassau-Commercial-Fuel-Gasoline-<br>3789572 Census-EIA<br>2019-Nassau-Commercial-Fuel-Propane-<br>3789596 Census-EIA<br>Solid Waste  | (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required) | Scope 1<br>Scope 1<br>Scope 1<br>Scope 1 | I.2.1<br>I.2.1<br>I.2.1<br>I.2.1<br>I.2.1<br>I.2.1 | 2019 (FPL and<br>eGRID2018 factors)                                | Year Values<br>IPCC 5th Assessment 100<br>Year Values | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy | Activity Source and Activity   | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.   | cbarsanti@hanson-inc.com2024 Jan 10<br>07:34pmcbarsanti@hanson-inc.com2024 Jan 10<br>08:35pmcbarsanti@hanson-inc.com2024 Jan 11<br>01:50pmcbarsanti@hanson-inc.com2024 Jan 11<br>01:50pmcbarsanti@hanson-inc.com2024 Jan 11<br>01:50pmcbarsanti@hanson-inc.com2024 Jan 11<br>01:50pmcbarsanti@hanson-inc.com2024 Jan 11<br>01:50pmcbarsanti@hanson-inc.com2024 Jan 11<br>01:51pmcbarsanti@hanson-inc.com2024 Jan 11<br>01:52pm  | <ul> <li>77262.7913</li> <li>7.66818681</li> <li>9121.18966</li> <li>0.860165</li> <li>8392.77778</li> <li>1.44848913</li> <li>2657.23488</li> <li>0.39052174</li> <li>1.5792</li> <li>0.00023333</li> <li>5306.8765</li> <li>0.84644</li> <li>1335.8331</li> <li>0.23884615</li> </ul> | 1.0456618477754.6009 Commercial Electricity0.01720332019 Nassau0.01720339149.83315 Commercial fuel0.144848918471.72044 Commercial fuel0.026034782675.06871 Commercial fuel0.026034782675.06871 Commercial fuel1.5556E-051.58985556 Commercial fuel0.060465346.59872 Commercial fuel2019 Nassau2019 Nassau0.060462019 Nassau2019 Nassau2019 Nassau0.060462019 Nassau2019 Nassau2019 Nassau | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu | 133261<br>35928<br>35928<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21 | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725<br>75.2 0.0111111 0.000741<br>70.22 0.0112 0.0008<br>61.46 0.010989 0.001099<br>61.46 0.010989 0.001099 |

|                  | Residential  |  |                    |                     |  |   |                                      |                                    |   |   |                                       |                       |   |  |  |  |  |  |                   |
|------------------|--|--|--------------------|---------------------|--|---|--------------------------------------|------------------------------------|---|---|---------------------------------------|-----------------------|---|--|--|--|--|--|-------------------|
| 0                | utput Record   |  |                    | GPC Re              | f  |   |                                      |                                    |   |   |                                       |                       |   | CO2 CO2<br>Electricity Energy Emissions Emissions                              | CH4 CH4<br>Emissions Emissions   | US<br>N2O N2O Com<br>Emissions Emissions Prot  | munity Energy  | Biogenic Biogenic<br>CO2 CO2<br>Emissions Emissions  |                   |
|                  | s With Co2e Inventory Record   | Calculator   | Gpc Scop           |                     | Factor Profiles<br>Florida Power and Ligh                      |   | Category                             | Activity Source                    |   | Created By  |                                       | CO2 (MT) CH4 (MT) N   | V2O (MT) CO2e (MT) Tags   | , ,  | its Factor Factor Units  |  |  | Factor Factor Units  |                   |
| 246095           | 3770845 2019-Nassau-County-Residential-Energy-FPL  | Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel       | Scope 2            | l.1.2               | 2019 (FPL and eGRID2018 factors)                               | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100 | Residential<br>Energy<br>Residential | Activity<br>Source and             | American Community Surve<br>ACSST5Y2019<br>American Community Surve                     | rvolenec@hanson-inc.com                                 | 2024 Jan 4<br>09:24pm<br>2024 Jan 17  | 152459.934 15.1313618 | 2019 Nassau<br>2.06336752 153430.404 RESIDENTIAL FPL<br>2019 RESIDENTIAL                  | 1725044.106 0.08838031 MT/MMBt   | u 8.7716E-06 MT/MMBtu  | 1.1961E-06 MT/MMBtu BE.2   | 1  |  |                   |
| 247905           | 3801754 2019-Nassau-County-Residential-Fuel-NGas   | Combustion (USCP Required)<br>Emissions from Stationary Fuel                               | Scope 1            | l.1.1               |  | Year Values<br>IPCC 5th Assessment 100                            | Energy<br>Residential                | Activity<br>Source and             | ACSST5Y2019<br>American Community Surve   | rvolenec@hanson-inc.com                                 |                                       | 3583.42987 0.3379319  |   | 53.02 kg/MMBtu   | 0.005 kg/MMBtu   | 0.0001 kg/MMBtu BE. <sup>2</sup>   | .1 67586.38  | 0 kg/MMBtu   |                   |
| 247906           | 3801778 2019-Nassau-County-Residential-Fuel-FuelOil  | Combustion (USCP Required)<br>Emissions from Stationary Fuel                               | Scope 1            |                     |  | Year Values<br>IPCC 5th Assessment 100                            | Energy<br>Residential                | Activity<br>Source and             | ACSST5Y2019<br>American Community Surve   |   | 2024 Jan 17                           |                       | 0.00028809 29.6016217 Nassau fuel<br>2019 RESIDENTIAL                                     | 73.96 kg/MMBtu   |  | 0.00072464 kg/MMBtu BE.  |  | 0 kg/MMBtu   |                   |
| 247907<br>247908 | 3801802 2019-Nassau-County-Residential-Fuel-LPG 3801826 2019-Nassau-County-Residential-Fuel-Wood | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required) | Scope 1<br>Scope 1 |                     |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values             | Energy<br>Residential<br>Energy      | Activity<br>Source and<br>Activity | ACSST5Y2019<br>American Community Surve<br>ACSST5Y2019                                  | rvolenec@hanson-inc.com<br>y<br>rvolenec@hanson-inc.com | 2024 Jan 17                           |                       | 0.0272247 1592.27988 Nassau fuel<br>2019 RESIDENTIAL<br>0.00500934 11.8804847 Nassau fuel | 62.98 kg/MMBtu<br>0 kg/MMBtu   | u 0.01086957 kg/MMBtu<br>u 0.316 kg/MMBtu  | 0.00108696 kg/MMBtu BE. <sup>2</sup><br>0.0042 kg/MMBtu BE. <sup>2</sup>   |  | 0 kg/MMBtu<br>93.8 kg/MMBtu  |                   |
| 247908           | Transportation   | Compustion (USCF Required)   | Scope              | 1.1.1               |  | real values   | Energy                               | Activity                           | AC331312019   | TVOIENEC@TIANSOFFIC.com                                 | 08.51011                              | 0 0.3766932           | 0.00500954 11.0004047 Nassau Tuer   | U Kg/MIMBLU  |  | 0.0042 kg/imimblu BE.  | .2 1192.7  | 93.6 kg/imimblu  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    |   |   |                                       |                       |   | Fossil Fuel  |  | Biogenic Biogenic  |  | US   |                   |
|                  | utput Record<br>s With Co2e Inventory Record   | Calculator   | Gpc Scor           | GPC Re<br>pe Number |  | Global Warming Potential  | Category                             | Activity Sour                      | ce Notes  | Created By  | Created At                            | CO2 (MT) CH4 (MT) N   | √2O (MT) CO2e (MT) Tags   | Energy Biofuel<br>Equivalent Energy<br>On Road VMT (MMBtu) (MMBtu)             | CO2 CO2<br>Emissions Emissions<br>Factor Factor Units  | CO2 CO2 CH4<br>Emissions Emissions Emis  | sions Emissions I  | N2O N2O Communit<br>Emissions Emissions y Protocol<br>Factor Factor Units Reference                      | l Equ             |
|                  |  |  |                    |                     | Florida Power and Ligh   | C C   |                                      | , et e                             | The above data is pulled from Google's Environmenta                                     | ·   |                                       |                       |   |  |  |  |  |  | ,                 |
|                  |  |  |                    |                     | 2019 (FPL and<br>eGRID2018 factors) an                         |   |                                      |                                    | Insights platform for Nassau<br>County and calculated                                   |   |                                       |                       |   |  |  |  |  |  |                   |
| 0.40007          |  | On Road Transportation (USCP   |                    |                     | 2019 US National<br>Defaults (updated                          | IPCC 5th Assessment 100   | Transportation                       | Source and                         | through ClearPath's guidance documentation and  |   | 2024 Jan 3                            |                       | 2019 Gasoline   |  |  |  |  |  |                   |
| 246037           | 3769770 2019-Nassau-Transportation-Gasoline-GEI  | Requirea)  | Scope 1            | II.1.1              | 2020)  | Year Values   | Sources                              | Activity                           | spreadsheet.<br>The above data is pulled  | mcoalson@hanson-inc.co                                  | п 09:36рт                             | 545004.562 25.9485553 | 14.1209093 549473.162 transportation Nassau   | 1331156611 7759176.56  | 0 0.07024 MT/MMBtu   | 0.0684136 MT/MMBtu 1.8   | 49E-08 M 1/mile  | 1.061E-08 MT/mile TR.1.A   |                   |
|                  |  |  |                    |                     | Florida Power and Ligh<br>2019 (FPL and                        |   |                                      |                                    | from Google's Environmenta<br>Insights platform for Nassau                              |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  | On Road Transportation (USCP   |                    |                     | eGRID2018 factors) an<br>2019 US National<br>Defaults (updated | d<br>IPCC 5th Assessment 100                                      | Transportation                       | o<br>Source and                    | County and calculated<br>through ClearPath's<br>guidance documentation and              | 4   | 2024 Jan 4                            |                       | 2019 transportation   |  |  |  |  |  |                   |
| 246135           | 3771624 2019-Nassau-Transportation-Diesel-GEI  | Required)  | Scope 1            | II.1.1              | 2020)  | Year Values   | Sources                              | Activity                           | spreadsheet.  | mcoalson@hanson-inc.co                                  |                                       | 202824.394 0.63419783 | 0.60581966 203002.694 Diesel Nassau   | 137865197.7 2743299.02   | 0 0.07393448 MT/MMBtu  | 0.07377323 MT/MMBtu  | 4.6E-09 MT/mile  | 4.394E-09 MT/mile TR.2.C   |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Where available<br>Sustainability or ESG  |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | reports were used to determine Total GHG  |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Emissions in units of Metric<br>Tons of CO2e. Sustainability<br>or ESG reports were     | /   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | available for the following<br>Railroad Companies and ar                                | 9   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | attached: CSX, Union<br>Pacific, Norfolk Southern.                                      |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Where Sustainability or ESC<br>reports were not available<br>the AVG emissions per mile |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | of track and AVG gallons of<br>diesel per mile of track in                              |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | the given County was used to calculate the total annual                                 |   |                                       |                       |   |  |  |  |  |  |                   |
| 247845           | 3800654 2019-Nassau-Rail-Diesel-FDOT   | Rail Transportation (USCP<br>Recommended)  | Scope 1            | II.2.1              | Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors)  | IPCC 5th Assessment 100<br>Year Values                            | Transportation & Mobile<br>Sources   | o<br>Source and<br>Activity        | gallons Diesel and annual GHG emissions. All data is based off the 2019 year.           | mcoalson@hanson-inc.co                                  | 2024 Jan 17<br>n 05:44pm              | 8867                  | 2019,Nassau,Rail,Die<br>8867 el   | 5  | 0 MT/MMBtu   |  | 0 MT/MMBtu   | 0 MT/MMBtu   | 17                |
| 2                | AFOLU  |  | ecope :            |                     |  |   |                                      | <i>i</i> totivity                  |   |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    |   |   |                                       |                       |   | Canopy<br>Area of<br>Troos   |  |  |  |  |                   |
| Ο                | utput Record   |  |                    | GPC Re              | f  |   |                                      |                                    |   |   |                                       |                       |   | Trees US<br>Outside Community<br>Land Area (hectares Forest Protocol           | у  |  |  |  |                   |
| ld Id            | s With Co2e Inventory Record<br>2019-Nassau-County-AFOLU-Undisturbed                             | Calculator<br>Emissions and Removals from  | Gpc Scor           |                     | Factor Profiles  | Global Warming Potential<br>IPCC 5th Assessment 100               |                                      | Activity Source                    | LEARN Report 2016-2019  | Created By  | 2024 Jan 5                            | CO2 (MT) CH4 (MT) N   | V2O (MT) CO2e (MT) Tags   | / year) (hectares) Reference   | 9  |  |  |  |                   |
| 246295           | 3774447 Forest<br>2019-Nassau-County-AFOLU-Forest to<br>3774455 Grassland                        | Forests (USCP Recommended)<br>Emissions and Removals from<br>Forests (USCP Recommended)    |                    |                     |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values             | AFOLU<br>AFOLU                       |                                    | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)            | rvolenec@hanson-inc.com                                 | 2024 Jan 5                            |                       | 2019 AFOLU Nassau   |  |  |  |  |  |                   |
| 246297<br>246298 | 2019-Nassau-County-AFOLU-Non-Forest to<br>3774459 Forest   | Emissions and Removals from<br>Forests (USCP Recommended)                                  |                    |                     |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values             | AFOLU                                |                                    | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)            | rvolenec@hanson-inc.com                                 | 2024 Jan 5                            |                       | 2019 AFOLU Nassau<br>2019 AFOLU Nassau  |  |  |  |  |  |                   |
| 246299           | 2019-Nassau-County-AFOLU-Forest to<br>3774463 Settlement   | Emissions and Removals from<br>Forests (USCP Recommended)                                  |                    |                     |  | IPCC 5th Assessment 100<br>Year Values                            | AFOLU                                |                                    | LEARN Report 2016-2019<br>(Gainesville reference)                                       | rvolenec@hanson-inc.com                                 | 2024 Jan 5<br>09:30pm                 |                       | 2019 AFOLU Nassau   |  |  |  |  |  |                   |
| 246300           | 2019-Nassau-County-AFOLU-Forest to Other<br>3774467 Non-Forest                                   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from   | Scope 1            | V.2                 |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100 | AFOLU                                |                                    | LEARN Report 2016-2019<br>(Gainesville reference)<br>LEARN Report 2016-2019             | rvolenec@hanson-inc.com                                 | 2024 Jan 5<br>09:31pm<br>2024 Jan 5   |                       | 2019 AFOLU Nassau   | 55   |  |  |  |  |                   |
| 246301           | 3774471 2019-Nassau-County-AFOLU-Forest to Wetlar  |  | Scope 1            | V.2                 |  | Year Values   | AFOLU                                |                                    | (Gainesville reference)   | rvolenec@hanson-inc.com                                 |                                       |                       | 2019 AFOLU Nassau   | 413  |  |  |  |  |                   |
| 246296           | 2019-Nassau-County-AFOLU-Outside of 3774453 Forests  | Trees Outside of Forests (USCP Recommended)  | Scope 1            | V.2                 |  | IPCC 5th Assessment 100<br>Year Values                            | AFOLU                                |                                    | LEARN Report 2016-2019<br>(Gainesville reference)                                       | rvolenec@hanson-inc.com                                 |                                       |                       | 2019 AFOLU Nassau   | 14575  |  |  |  |  |                   |
| 247795           | 2019-Nassau-County-AFOLU-Enteric<br>3799881 Fermentation<br>x2019-Nassau-County-AFOLU-Enteric    | Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural   | Scope 1            | V.1                 |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100 | AFOLU                                | Source                             | 2017 USDA Agricultural<br>Census<br>2017 USDA Agricultural                              | rvolenec@hanson-inc.com                                 | 2024 Jan 16<br>10:17pm<br>2024 Jan 22 | 0 1164                | 0 32592 2019 AFOLU Nassau   | A.1  |  |  |  |  |                   |
| 248456           | 3811237 Fermentation   | Activities (USCP optional)   | Scope 1            | V.1                 |  | Year Values   | AFOLU                                | Source                             |   | rvolenec@hanson-inc.com                                 |                                       | 0 32591.9             | 0 912573.2  | A.1  |  |  |  |  |                   |
|                  | Commercial   |  |                    |                     |  |   |                                      |                                    | The above data is pulled  |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States       | 3   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Census Bureau's "County<br>Business Patterns Tables",                                   |   |                                       |                       |   |  |  |  |  |  |                   |
| 246915           | 3786694 2019-Nassau-Commercial-Elec-Census-EIA   | Emissions from Grid Electricity (USCP Required)  | Scope 2            | 1.2.2               | Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors)  | t<br>IPCC 5th Assessment 100<br>Year Values                       | Commercial<br>Energy                 | Activity                           | and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.              | cbarsanti@hanson-inc.co                                 | 2024 Jan 10                           | 77262 7012 7 66019601 | 2019 Nassau<br>1.04566184 77754.6009 Commercial Electricity                               | 974208.1911 0.08838031 MT/MMBt   | u 8.7716E-06 MT/MMBtu  | 1.1961E-06 MT/MMBtu BE.2   | 1  |  |                   |
| 240915           | 3700094 2019-Nassau-Commercial-Elec-Census-EIA   | (USCF Required)  | Scope 2            | 1.2.2               | egridzo to factors)  | Teal values   | Energy                               | Activity                           | The above data is pulled from the United States   | CDarsanti en ansor-inc.com                              | n 07.34pm                             | 11202.1913 1.00010001 |   | 074208.1911 0.00030031 W1/WWB0   |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Census Bureau's "On The<br>Map" tool, the United States                                 | 3   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State      |   |                                       |                       |   |  |  |  |  |  |                   |
| 246937           | 2019-Nassau-Commercial-Fuel-Natural Gas-<br>3787063 Census-EIA                                   | Emissions from Stationary Fuel<br>Combustion (USCP Required)                               | Scope 1            | l.2.1               |  | IPCC 5th Assessment 100<br>Year Values                            | Commercial<br>Energy                 | Source and<br>Activity             | Profile and Energy<br>Estimates" for Florida.   | cbarsanti@hanson-inc.co                                 | 2024 Jan 10<br>n 08:35pm              | 9121.18966 0.860165   | 2019 Nassau<br>0.0172033 9149.83315 Commercial fuel                                       | kg/MMBtu   | ı kg/MMBtu   | kg/MMBtu   | 172033   | 53.02 0.005 0.0001   | 1                 |
|                  |  |  |                    |                     |  |   |                                      |                                    | The above data is pulled from the United States   |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County      | 3   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Business Patterns Tables", and the U.S. EIA's "State                                    |   |                                       |                       |   |  |  |  |  |  |                   |
| 247106           | 2019-Nassau-Commercial-Fuel-LPG-Census-<br>3789500 EIA   | Emissions from Stationary Fuel<br>Combustion (USCP Required)                               | Scope 1            | I.2.1               |  | IPCC 5th Assessment 100<br>Year Values                            | Commercial<br>Energy                 | Source and<br>Activity             | Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled               | cbarsanti@hanson-inc.co                                 | 2024 Jan 11<br>n 01:50pm              | 8392.77778 1.44848913 | 2019 Nassau<br>0.14484891 8471.72044 Commercial fuel                                      | kg/MMBtu   | kg/MMBtu   | kg/MMBtu   | 133261   | 62.98 0.0108696 0.001087   | ,                 |
|                  |  |  |                    |                     |  |   |                                      |                                    | from the United States<br>Census Bureau's "On The                                       |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Map" tool, the United States<br>Census Bureau's "County                                 | 3   |                                       |                       |   |  |  |  |  |  |                   |
|                  | 2019-Nassau-Commercial-Fuel-Distillate Fuel  | Emissions from Stationary Fuel   |                    |                     |  | IPCC 5th Assessment 100   | Commercial                           | Source and                         | Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy           |   | 2024 Jan 11                           |                       | 2019 Nassau   |  |  |  |  |  |                   |
| 247107           | 3789524 Oil-Census-EIA   | Combustion (USCP Required)   | Scope 1            | l.2.1               |  | Year Values   | Energy                               | Activity                           | Estimates" for Florida.<br>The above data is pulled                                     | cbarsanti@hanson-inc.co                                 |                                       | 2657.23488 0.39052174 | 0.02603478 2675.06871 Commercial fuel   | kg/MMBtu   | kg/MMBtu   | kg/MMBtu   | 35928  | 73.96 0.0108696 0.000725   | ,                 |
|                  |  |  |                    |                     |  |   |                                      |                                    | from the United States<br>Census Bureau's "On The                                       |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",   | 3   |                                       |                       |   |  |  |  |  |  |                   |
|                  | 2019-Nassau-Commercial-Fuel-Kerosene-  | Emissions from Stationary Fuel   |                    |                     |  | IPCC 5th Assessment 100   | Commercial                           | Source and                         | and the U.S. EIA's "State<br>Profile and Energy   |   | 2024 Jan 11                           |                       | 2019 Nassau   |  |  |  |  |  |                   |
| 247108           | 3789548 Census-EIA   | Combustion (USCP Required)   | Scope 1            | I.2.1               |  | Year Values   | Energy                               | Activity                           | Estimates" for Florida.<br>The above data is pulled                                     | cbarsanti@hanson-inc.co                                 | n 01:51pm                             | 1.5792 0.00023333     | 1.5556E-05 1.58985556 Commercial fuel   | kg/MMBtu   | u kg/MMBtu   | kg/MMBtu   | 21   | 75.2 0.0111111 0.000741  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | from the United States<br>Census Bureau's "On The<br>Map" tool, the United States       |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Census Bureau's "County<br>Business Patterns Tables",                                   |   |                                       |                       |   |  |  |  |  |  |                   |
| 0.474.00         | 2019-Nassau-Commercial-Fuel-Gasoline-  | Emissions from Stationary Fuel   | 0                  | 10.4                |  | IPCC 5th Assessment 100   |                                      | Source and                         | and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Elorida               | characet @bases '                                       | 2024 Jan 11                           | 5206 0765 0 0 C C     | 2019 Nassau   | ,  |  |  | <b></b> -  | 70.00 0.0140 0.000   | 2                 |
| 247109           | 3789572 Census-EIA   | Combustion (USCP Required)   | Scope 1            | I.2.1               |  | Year Values   | Energy                               | Activity                           | Estimates" for Florida.<br>The above data is pulled<br>from the United States           | cbarsanti@hanson-inc.co                                 | н от:52pm                             | 5306.8765 0.84644     | 0.06046 5346.59872 Commercial fuel  | kg/MMBtu   | u kg/MMBtu   | kg/MMBtu   | 75575  | 70.22 0.0112 0.0008  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Census Bureau's "On The<br>Map" tool, the United States                                 | 3   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  |  |                    |                     |  |   |                                      |                                    | Census Bureau's "County<br>Business Patterns Tables",                                   |   |                                       |                       |   |  |  |  |  |  |                   |
|                  |  | Emissions from Stationary Fuel   |                    |                     |  | IPCC 5th Assessment 100<br>Year Values                            | Commercial<br>Energy                 | Source and<br>Activity             | and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.              | cbarsanti@hanson-inc.co                                 | 2024 Jan 11<br>n 01:52pm              | 1335.8331 0.23884615  | 2019 Nassau<br>0.02388462 1348.85022 Commercial fuel                                      | kg/MMBtu   | u kg/MMBtu   | kg/MMBtu   | 21735  | 61.46 0.010989 0.001099  | ג                 |
| 247110           | 2019-Nassau-Commercial-Fuel-Propane-<br>3789596 Census-EIA                                       | Combustion (USCP Required)   | Scope 1            | 1.2.1               |  |   | ·~· 31                               | J                                  |   |   |                                       |                       |   |  |  |  |  |  | 1                 |
| 247110           | •  | Combustion (USCP Required)   | Scope 1            | I.2.1               |  |   |                                      |                                    |   |   |                                       |                       |   |  |  |  |  |  | J                 |
| 247110           | 3789596 Census-EIA   | Combustion (USCP Required)   | Scope 1            | I.2.1               |  |   |                                      |                                    |   |   |                                       |                       |   | Mixed MS\// Nowcooco   | Corrugated<br>er Office Paper Cardboard  |  |  | Dimensional<br>Branches Lumber Mixed   | J                 |
|                  | 3789596 Census-EIA<br>Solid Waste  | Combustion (USCP Required)   | Scope 1            |                     | _  |   |                                      |                                    |   |   |                                       |                       |   | Emissions Emissions<br>Factor (MT Factor (M                                    | er Office Paper Cardboard<br>Emissions Emissions<br>T Factor (MT Factor (MT                    | hird Class<br>Mail Food Scraps Gras<br>Emissions Emissions Emis<br>Factor (MT Factor (MT Factor                        | s Leaves I<br>sions Emissions I<br>or (MT Factor (MT I                   | Branches Lumber Mixed<br>Emissions Emissions MSW<br>Factor (MT Factor (MT LFG                            | Nev<br>er I       |
| 0                | 3789596 Census-EIA<br>Solid Waste<br>utput Record  |  |                    | GPC Re              |  |   | Category                             | Activity Source                    | ce Notes  | Created By  | Created At                            | CO2 (MT) CH4 (MT) N   | √2O (MT) CO2e (MT) Tags   | Emissions Emissions<br>Factor (MT Factor (M<br>Waste Generated CH4/wet CH4/wet | er Office Paper Cardboard<br>Emissions Emissions<br>T Factor (MT Factor (MT<br>CH4/wet CH4/wet | hird Class<br>Mail Food Scraps Gras<br>Emissions Emissions Emis<br>Factor (MT Factor (MT Factor<br>CH4/wet CH4/wet CH4 | s Leaves B<br>sions Emissions B<br>or (MT Factor (MT B<br>/wet CH4/wet 0 | Branches Lumber Mixed<br>Emissions Emissions MSW<br>Factor (MT Factor (MT LFG<br>CH4/wet CH4/wet Capture | Nev<br>er I<br>Ca |

### Nassau County 2019 Detailed Inventory

### nunit Energy tocol Equivalent ence (MMBtu)

### 170041.5

### .0001 0 kg/MMBtu

### 01087 0 kg/MMBtu

### 00725 0 kg/MMBtu

### 00741 0 kg/MMBtu

0.0008 0 kg/MMBtu

01099 0 kg/MMBtu

Corrugate Magazine Officeds/ThirdFoodDimensionNewspapPaperContainerClass MailScrapsGrassLeavesBranchesal Lumberer LFGLFGsLFGLFGLFGLFGLFGLFGreCaptureC

| Industrial         Output Record       GPC Ref         Id       Output Record       GPC Ref         247289       3791543 Distillate Fuel Oil No. 2       Combustion (USCP Required)       Scope 1       I.3.1         247290       3791561 Wood and Wood Residuals       Combustion (USCP Required)       Scope 1       I.3.1         247291       3791561 Wood and Wood Residuals       Combustion (USCP Required)       Scope 1       I.3.1         247292       Scope 1       I.3.1         WestRock CP, LLC - Fernandina Beach Mill -       Emissions from Stationary Fuel         Combustion (USCP Required)       Scope 1       I.3.1         WestRock CP, LLC - Fernandina Beach Mill -       Emissions from Stationary Fuel         Combustion (USCP Required)       Scope 1       I.3.1         WestRock CP, LLC - Fernandina Beach Mill -       Emissions from Stationary Fuel         Combustion (USCP Required)       Scope 1       I.3.1         Exponier Performance Fibers LLC - Fernandina       E   | IPCC 5th<br>Year Valu |
|--|-----------------------|
| IdIdsWith Co2eInventory Record<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>   |                       |
| IdIdsWith Co2eInventory Record<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)Scope 1I.3.1I.3.12472923791597Natural Gas<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 1I.3.1I.3.12472933791615Propane<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernand  |                       |
| WestRock CP, LLC - Fernandina Beach Mill -<br>247289Emissions from Stationary Fuel<br>Combustion (USCP Required)Scope 11.3.12472903791543 Distillate Fuel Oil No. 2<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 11.3.12472903791579 Bituminous<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 11.3.12472923791579 Bituminous<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 11.3.12472923791615 Propane<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Pe  | Global Wa             |
| 2472893791543Distillate Fuel Oil No. 2<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 11.3.12472913791579Bituminous<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 11.3.12472923791597Natural Gas<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 11.3.12472933791615Propane<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Per  | IPCC 5th              |
| WestRock CP, LLC - Fernandina Beach Mill -<br>247290Emissions from Stationary Fuel<br>Combustion (USCP Required)Scope 1I.3.12472913791561Wood and Wood Residuals<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)Scope 1I.3.12472923791577Natural Gas<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)Scope 1I.3.12472933791615Propane<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Emissions from Stationary FuelScope 1I.3.12472983791726Mill - Residual Fuel Oil No. 2<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Emissions from Stationary FuelScope 1I.3.12472993791726Mill - Residual Fuel Oil No. 6<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina   | Year Valu             |
| 2472903791561 Wood and Wood Residuals<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 1I.3.12472913791579 Bituminous<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 1I.3.12472933791615 Propane<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Emissions from Stationary FuelScope 1I.3.12472993791726 Mill - Residual Fuel Oil No. 6<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Perfor  | IPCC 5th              |
| WestRock CP, LLC - Fernandina Beach Mill -Emissions from Stationary Fuel<br>Combustion (USCP Required)Scope 1I.3.12472913791579Bituminous<br>WestRock CP, LLC - Fernandina Beach Mill -Emissions from Stationary FuelScope 1I.3.12472923791597Natural Gas<br>WestRock CP, LLC - Fernandina Beach Mill -Combustion (USCP Required)Scope 1I.3.12472933791615Propane<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier P  | Year Valu             |
| 2472913791579 Bituminous<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Emissions from Stationary FuelScope 11.3.12472933791615Propane<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Emissions from Stationary FuelScope 11.3.12472983791726Mill - Residual Fuel Oil No. 6<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Emissions from Stationary Fuel1.3.12472993791726Mill - Wood and Wood Residuals<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina<br>Emissions from Stationary FuelScope 11.3.12473003791762Mill - Agricultural Byproducts<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - Fernandina   | IPCC 5th              |
| WestRock CP, LLC - Fernandina Beach Mill -Emissions from Stationary Fuel2472923791597 Natural Gas<br>WestRock CP, LLC - Fernandina Beach Mill -Combustion (USCP Required)Scope 11.3.12472933791615 Propane<br>Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary FuelScope 11.3.12472943791633 Mill - Residual Fuel Oil No. 2<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 11.3.12472983791726 Mill - Residual Fuel Oil No. 6<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 11.3.12472993791744 Mill - Wood and Wood Residuals<br>Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary Fuel<br>Combustion (USCP Required)Scope 11.3.12473003791762 Mill - Agricultural Byproducts<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary Fuel<br>Combustion (USCP Required)Scope 11.3.12473013791780 Mill - TiresCombustion (USCP Required)Scope 11.3.1   | Year Valu             |
| 2472923791597 Natural Gas<br>WestRock CP, LLC - Fernandina Beach Mill -<br>WestRock CP, LLC - Fernandina Beach Mill -<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - F | IPCC 5th              |
| 2472933791615 Propane<br>Rayonier Performance Fibers LLC - Fernandina<br>Rayonier Performance Fibers LLC - F | Year Valu             |
| Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary Fuel2472943791633 Mill - Residual Fuel Oil No. 2<br>Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary Fuel2472983791726 Mill - Residual Fuel Oil No. 6<br>Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary Fuel2472993791744 Mill - Wood and Wood Residuals<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)<br>Emissions from Stationary FuelScope 11.3.12473003791762 Mill - Agricultural Byproducts<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)<br>Emissions from Stationary FuelScope 11.3.12473013791780 Mill - TiresCombustion (USCP Required)<br>Combustion (USCP Required)Scope 11.3.1   | IPCC 5th              |
| 2472943791633 Mill - Residual Fuel Oil No. 2<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12472983791726 Mill - Residual Fuel Oil No. 6<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12472993791744 Mill - Wood and Wood Residuals<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12473003791762 Mill - Agricultural Byproducts<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12473013791780 Mill - TiresCombustion (USCP Required)Scope 1I.3.1   | Year Valu             |
| Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary Fuel2472983791726 Mill - Residual Fuel Oil No. 6Combustion (USCP Required)Scope 1I.3.12472993791744 Mill - Wood and Wood ResidualsCombustion (USCP Required)Scope 1I.3.12473003791762 Mill - Agricultural ByproductsCombustion (USCP Required)Scope 1I.3.12473013791780 Mill - TiresEmissions from Stationary FuelCombustion (USCP Required)Scope 1I.3.12473013791780 Mill - TiresCombustion (USCP Required)Scope 1I.3.1   | IPCC 5th              |
| <ul> <li>247298 3791726 Mill - Residual Fuel Oil No. 6<br/>Rayonier Performance Fibers LLC - Fernandina</li> <li>247299 3791744 Mill - Wood and Wood Residuals<br/>Rayonier Performance Fibers LLC - Fernandina</li> <li>247300 3791762 Mill - Agricultural Byproducts<br/>Rayonier Performance Fibers LLC - Fernandina</li> <li>247301 3791780 Mill - Tires</li> <li>Combustion (USCP Required)</li> <li>Combustion (USCP Required)</li> <li>Combustion (USCP Required)</li> <li>Combustion (USCP Required)</li> <li>Scope 1</li> <li>I.3.1</li> <li>Emissions from Stationary Fuel</li> <li>Combustion (USCP Required)</li> <li>Scope 1</li> <li>I.3.1</li> <li>I.3.1</li> </ul>   | Year Valu             |
| Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary Fuel2472993791744 Mill - Wood and Wood Residuals<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12473003791762 Mill - Agricultural Byproducts<br>Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary FuelScope 1I.3.12473013791780 Mill - TiresEmissions from Stationary FuelCombustion (USCP Required)Scope 1I.3.12473013791780 Mill - TiresEmissions from Stationary FuelCombustion (USCP Required)Scope 1I.3.1   | IPCC 5th              |
| 2472993791744 Mill - Wood and Wood Residuals<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12473003791762 Mill - Agricultural Byproducts<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12473013791780 Mill - TiresCombustion (USCP Required)Scope 1I.3.1   | Year Valu             |
| Rayonier Performance Fibers LLC - FernandinaEmissions from Stationary Fuel2473003791762 Mill - Agricultural Byproducts<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12473013791780 Mill - TiresCombustion (USCP Required)Scope 1I.3.1   | IPCC 5th /            |
| 2473003791762 Mill - Agricultural Byproducts<br>Rayonier Performance Fibers LLC - FernandinaCombustion (USCP Required)Scope 1I.3.12473013791780 Mill - TiresCombustion (USCP Required)Scope 1I.3.1   | Year Valu             |
| Rayonier Performance Fibers LLC - Fernandina Emissions from Stationary Fuel<br>247301 3791780 Mill - Tires Combustion (USCP Required) Scope 1 I.3.1  | IPCC 5th              |
| 247301 3791780 Mill - Tires Combustion (USCP Required) Scope 1 I.3.1   | Year Valu             |
|  | IPCC 5th              |
| Ravonier Performance Fibers LLC - Fernandina Emissions from Stationary Fuel  | Year Valu             |
|  | IPCC 5th              |
| 247302 3791798 Mill - Natural Gas Combustion (USCP Required) Scope 1 I.3.1   | Year Valu             |

# Nassau County 2019 Detailed Inventory

| CC 5th Assessment 100<br>ear Values | Solid Waste          | Source         |                            | avo@hanson-inc.com         | 2024 Jan 15<br>04:13pm |            | 831.3201 |          | 23276.9628                                | 1940                        | 0.0                         | 648 0.04                         | 2 0.155          | 56 0.1048                        | 0.047                      | 6 0.064                          | 8 0.022                      | 28 0.02                                    | 26 0.058                                    | 0. |
|-------------------------------------|----------------------|----------------|----------------------------|----------------------------|------------------------|------------|----------|----------|---|-----------------------------|-----------------------------|----------------------------------|------------------|----------------------------------|----------------------------|----------------------------------|------------------------------|--|---|----|
| lobal Warming Potential             | Category             | Activity Sour  | ce Notes                   | Created By                 | Created At             | CO2 (MT) 0 | CH4 (MT) | N2O (MT) | CO2e (MT) Tags                            | Energy Equivalen<br>(MMBtu) | CO2<br>t Emission<br>Factor | CO2<br>Emissions<br>Factor Unit: | CH4<br>Emissions | CH4<br>Emissions<br>Factor Units | N2O<br>Emissions<br>Factor | N2O<br>Emissions<br>Factor Units | Biogenic<br>CO2<br>Emissions | Biogenic<br>CO2<br>Emissions<br>Factor Uni | US<br>Community<br>Protocol<br>ts Reference |    |
| CC 5th Assessment 100               | Industrial           | Activity Court |                            | Created by                 | 2024 Jan 12            |            |          |          | 2019 - Nassau -                           | (ININDIA)                   | 1 deter                     |                                  |                  |                                  | ractor                     |                                  |                              |  |   |    |
| ear Values<br>CC 5th Assessment 100 | Energy               | Source         | Fuel: Wood and Wood        | greilly@hanson-inc.com     | 02:49pm<br>2024 Jan 12 | 14969      | 0.61     | 0.122    |   |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ear Values<br>CC 5th Assessment 100 | Energy               | Source         | Residuals (dry basis)      | greilly@hanson-inc.com     | 02:50pm<br>2024 Jan 12 | 283166.3   | 21.74    | 10.868   |   |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ear Values<br>CC 5th Assessment 100 | Energy<br>Industrial | Source         | Fuel: Bituminous           | greilly@hanson-inc.com     | 02:53pm<br>2024 Jan 12 |            | 15.28    | 2.222    | 2 427.84588 Industrial<br>2019 - Nassau - |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ar Values<br>CC 5th Assessment 100  | Energy<br>Industrial | Source         |                            | greilly@hanson-inc.com     | 02:54pm<br>2024 Jan 12 | 48552.9    | 7        | 0.455    | 6 48869.475 Industrial<br>2019 - Nassau - |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ar Values<br>CC 5th Assessment 100  | Energy<br>Industrial | Source         |                            | greilly@hanson-inc.com     | 02:56pm<br>2024 Jan 12 | 61.3       | 0        | 0.001    | 61.565 Industrial<br>2019 - Nassau -      |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ar Values<br>CC 5th Assessment 100  | Energy<br>Industrial | Source         |                            | greilly@hanson-inc.com     | 03:09pm<br>2024 Jan 12 | 411.9      | 0.02     | 0.003    | 2019 - Nassau -                           |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ar Values<br>CC 5th Assessment 100  | Energy<br>Industrial | Source         | Fuel: Wood and Wood        | greilly@hanson-inc.com     | 04:32pm<br>2024 Jan 12 | 698.9      | 0.03     | 0.005    | 2019 - Nassau -                           |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ar Values<br>CC 5th Assessment 100  | Energy<br>Industrial | Source         | Residuals (dry basis)      | greilly@hanson-inc.com     | 04:33pm<br>2024 Jan 12 | 295658.6   | 22.69    |          | 299300.875 Industrial<br>2019 - Nassau -  |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ar Values<br>CC 5th Assessment 100  | Energy<br>Industrial | Source         | Fuel: Agricultural Byprodu | cts greilly@hanson-inc.com | 04:35pm<br>2024 Jan 12 | 48.2       | 0.01     | 0.002    | 2 49.01 Industrial<br>2019 - Nassau -     |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ear Values<br>CC 5th Assessment 100 | Energy<br>Industrial | Source         | Fuels: Tires               | greilly@hanson-inc.com     | 04:36pm<br>2024 Jan 12 | 6540.3     | 2.43     | 0.32     | e 6693.14 Industrial<br>2019 - Nassau -   |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |
| ear Values                          | Energy               | Source         |                            | greilly@hanson-inc.com     | 04:37pm                | 23608.2    | 0.44     | 0.044    | 23632.18 Industrial                       |                             | 0                           | 0 MT/MMBtu                       |                  | 0 MT/MMBtu                       |                            | 0 MT/MMBtu                       |                              | 0  | 0   |    |

| 59 | 58 | 54 | 52 | 50 | 39 | 47 | 51 | 57 | 0.1 |
|----|----|----|----|----|----|----|----|----|-----|
|    |    |    |    |    |    |    |    |    |     |

| Output<br>Record Ids<br>With Co2e Inventory Record Calculat                      |  |                               | da Power and Light                                  |  |  | e Notes   | Created By   | Created At                           | CO2 (MT) CH4 (MT) N2                                  | 2O (MT) CO2e (MT) Tags            | s Equiv                                     | ricity Energy Emissio<br>alent (MMBtu) Factor | ons Factor Emi<br>Units Fac                   | issions Factor Er<br>tor Units Fa             | nissions Factor y<br>actor Units R                       | Protocol Equivaler<br>eference (MMBtu)         | nt Emissions Factor<br>Factor Units                 |  |  |   |   |  |                         |  |   |   |
|--|--|-------------------------------|---|--|--|---|--|--------------------------------------|---|-----------------------------------|---|---|---|---|--|--|---|--|--|---|---|--|-------------------------|--|---|---|
| 096 3770865 2019-Palm-Coast-Residential-Energy-FPL (USCP F<br>Emission           | ns from Grid Electricity<br>Required) Sc<br>ns from Stationary Fuel<br>tion (USCP Required) Sc | ope 2 I.1.2 eGF               |   | IPCC 5th Assessment 10<br>Year Values<br>IPCC 5th Assessment 10<br>Year Values | Energy Activi  | e and American Com  | unity rv olenec@hanso<br>Y2019 inc.com<br>unity rv olenec@hanso<br>Y2019 inc.com   | 09:30pm<br>on- 2024 Jan 17           | 157661.309 15.6475886 2.1<br>3705.68338 0.3494609 0.0 | .13376208 158664.889 RES          | RESIDENTIAL                                 | 69892.18                                      |   | 3507894 5.10094482 2<br>3.296378 9.48296028 6 | 1.1449808 1.88069565 C<br>5.7499341 3.49700887           | 0.0883803<br>53.02                             | 8.772E-06 1.196E-06<br>0 0.005 0.0001               | Natural  | 92.18                                    | 31105   | 5 84365<br>2 1063                                   | Low Low  | 1783896 0               | 0 5.23E+08 665                                   | 66 9  |   |
| 7910 3801874 2019-Palm-Coast-Residential-Fuel-FuelOil Combus                     | ns from Stationary Fuel<br>tion (USCP Required) Sc   | ope 1 I.1.1                   |   | IPCC 5th Assessment 10<br>Year Values  | 00 Residential Sourc<br>Energy Activi                  | e and American Comm<br>y Survey ACSST                                   | unity rvolenec@hanso<br>Y2019 inc.com  |                                      |   | 2019<br>00029792 30.6112502 Palm. | RESIDENTIAL                                 | 411.13  | 0 0 25  | 5.695625 1.91320314 9                         | 56116279 0.71188954                                      | 73.96  | 0 0.0108696 0.0007246                               | Distillate<br>Fuel Oil<br>No No. 2 4                           | 11.13                                    | 16  |   | Low Low  |                         |  |   |   |
| 7912 3801913 2019-Palm-Coast-Residential-Fuel-LPG Combus<br>Emission             | ns from Stationary Fuel<br>tion (USCP Required) So<br>ns from Stationary Fuel                  |                               |   | IPCC 5th Assessment 10<br>Year Values<br>IPCC 5th Assessment 10                | Energy Activi<br>00 Residential Sourc                  | e and American Comm   | Y2019 inc.com<br>unity rvolenec@hanse  | 08:57pm<br>on- 2024 Jan 17           |   | 0.0281535 1646.60249 Palm<br>2019 | RESIDENTIAL                                 | 25901.22                                      |   | 6.585373 24.5761566 1 <sup>,</sup>            |  |  | 0 0.0108696 0.001087                                | No LPG 259   |  |   |   | Low Low  |                         |  |   |   |
| 13 3801937 2019-Palm-Coast-Residential-Fuel-Wood Combus<br>Transportation        | tion (USCP Required) Sc  | ope 1 I.1.1                   |   | Year Values  | Energy Activi  | y Survey ACSST  | Y2019 inc.com  | 08:58pm                              | 0 0.38975124 0.0                                      | .00518024 12.2857978 Palm         | nCoast fuel                                 | 1233.39                                       | 0 115.691982 11.                              | 9746602 0.11927959 4                          | 42075269 0.04403512                                      | 0 93   | .8 0.316 0.0042                                     | No Wood 12   | 33.39                                    |   | 3 279   | Low Low  |                         |  |   |   |
|  |  |                               |   |  |  |   |  |                                      |   |                                   |   | Fossil F                                      |   |   | Emissions  | Emission                                       | -   |  |  | Type of<br>Type of Freight                                    | Is this a<br>T&D<br>Loss                            | Percent  |                         | Road   |   | Previousl<br>y<br>Previousl Previousl Calculate                             |
| Output<br>Record Ids<br>With Co2e Inventory Record Calculat                      | or Gr  | GPC Ref<br>c Scope Number Fac | or Profiles   | Global Warming Potentia  | Activi<br>Category Sourc                               |   | Created By   | Created At                           | CO2 (MT) CH4 (MT) N2                                  | 2O (MT) CO2e (MT) Tags            | s On R                                      | Energy<br>Equivale<br>oad VMT (MMBtu)         | Biof uel<br>lent Energy Biog<br>l) (MMBtu) CO | genic- Biof uel Bi<br>2 (MT) CH4 (MT) N       | per Capita<br>of uel (MT CO2 M<br>2O (MT) per Person) pe | per Mile (<br>liles per CO2e pe<br>erson mile) | g CO2 CO2<br>F Emissions Emissions<br>Factor Factor | EH4 N2O Cald<br>Emission Emission on<br>s Factor s Factor Metl | VMT Travel<br>Nod Location Type          | VMT or VMT or<br>Emission Emission Fuel<br>s Data s Data Type | Record? Period M<br>(Required M<br>for EVs) VMT lea | ercent Passeng Percent<br>lotorcyc er Light<br>s Vehicles Trucks | Heavy<br>Tucks Fuel Use | Loss Percent Emission<br>Factor Biofuel s Factor | Average Average y y<br>Emission Emission Calculate C<br>s Factor s Factor d CO2 d | y y d Biofuel<br>Calculate Calculate Biogenic CO2<br>d CH4 d N2O CO2 Factor |
|  |  |                               | da Power and Light<br>(FPL and                      |  |  | f rom Google's<br>Environmental I<br>platform for Pal                   | sights   |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
| 2019-Palm_Coast-Transportation-Gasoline- On Road                                 | Transportation (USCP   | eGF<br>and                    | D2018 factors)<br>2019 US National<br>ults (updated | IPCC 5th Assessment 10   | Transportatio<br>0 n & Mobile Sourc                    | County and cal<br>through ClearPa<br>and guidance docum                 | ulated<br>h's  | on- 2024 Jan 3                       |   |                                   | ) Gasoline<br>sportation                    |   |   |   |  |  |   | VMT  | -& In- Passeng                           | Origin-<br>Destinati  |   |  |                         |  |   |   |
| 3769795 GEI Required   | l) Sc  | ope 1 II.1.1 2020             |   | Year Values  | Sources Activi   | y and spreadshee<br>The above data<br>from Google's                     |  | 09:37pm                              | 398274.206 18.962484 10.                              | 0.3191686 401539.735 Palm         | nCoast                                      | 972772302.3 5670190                           | 90.86 0                                       | 0 0   | 0 2.83229224 6   | 6861.5263 412.778                              | 75 0.07024 0.0684136                                | 1.95E-08 1.06E-08 MPC  | G Boundary er                            | on Gasoline   | 9.73E+08  | 0.67 75.91 21.   | 8 1.62                  | 0 0  | 0   | 0 0 0   |
|  |  | 2019<br>eGF                   | da Power and Light<br>(FPL and<br>D2018 factors)    |  |  | Environmental I<br>platform for Pal<br>County and cale                  | n Coast<br>ulated  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
| On Road<br>3771712 2019-Palm_Coast-Transportation-Diesel-GEI Required            | Transportation (USCP   |                               | · ·   | IPCC 5th Assessment 10<br>Year Values  | Transportatio<br>00 n & Mobile Sourc<br>Sources Activi | through ClearPa<br>e and guidance docum<br>y and spreadshee             |  | on- 2024 Jan 4<br>11:04pm            | 148218.437 0.46345417 0.                              | 2019<br>44271619 148348.734 trans | 9 PalmCoast<br>sportation Diesel            | 100748059.8 2004726                           | 26.78 0                                       | 0 0   | 0 Infinity In  | nf inity 1472.47                               | 24 0.0739345 0.0737732                              | VMT<br>4.6E-09 4.39E-09 MPC                                    | <sup>-</sup> & In-<br>G Boundary Freight | Origin-<br>Destinati<br>on Diesel                             | 1.01E+08  | 0 3.46 8.  | 3.31 88.23              | 0 0  | 0   | 0 0 0   |
| AFOLU  |  |                               |   |  |  |   |  |                                      |   |                                   |   | Canopy  |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
| Output<br>Record Ida   |  | CPC Pot                       |   |  | Activi   |   |  |                                      |   |                                   | Land  | Area of<br>Trees<br>Outside                   | US<br>community                               |   |  |  |   |  |  |   |   |  |                         |  |   |   |
|  | ns and Removals from   | GPC Ref<br>c Scope Number Fac |   | Global Warming Potentia<br>IPCC 5th Assessment 10                              | 00   | e Notes<br>LEARN Report   | Created By<br>016-2019 rv olenec@hanso   | on- 2024 Jan 5                       | CO2 (MT) CH4 (MT) N20                                 | 2019                              | AFOLU Palm                                  |   | Protocol<br>es) Reference                     |   |  |  |   |  |  | Undistur  |   |  |                         |  |   |   |
|  | (USCP Recommended) So<br>ns and Removals from<br>(USCP Recommended) So                         |                               |   | Year Values<br>IPCC 5th Assessment 10<br>Year Values                           | AFOLU<br>AFOLU   | LEARN Report  | rence) inc.com<br>016-2019 rvolenec@hanso<br>rence) inc.com  | 10:08pm<br>on- 2024 Jan 5<br>10:09pm |   | Coas<br>2019<br>Coas              | AFOLU Palm                                  |   |   |   |  |  |   |  |  | 12355 -61327 ed Fores<br>Forest to<br>Grasslan<br>188 5550 d  | D   |  |                         |  |   |   |
| 2019-Palm Coast-AFOLU-Non-Forest to Emission                                     | us and Removals from<br>(USCP Recommended) Sc  |                               |   | IPCC 5th Assessment 10<br>Year Values  |  | LEARN Report  | 016-2019 rv olenec@hanso<br>rence) inc.com   |                                      |   |                                   | AFOLU Palm                                  |   |   |   |  |  |   |  |  | Non-<br>Forest to<br>300 -4491 Forest                         | 0   |  |                         |  |   |   |
| 2019-Palm Coast-AFOLU-Forest to Other Emission                                   | ns and Removals from<br>(USCP Recommended) Sc  |                               |   | IPCC 5th Assessment 10<br>Year Values  |  | LEARN Report  | 016-2019 rvolenec@hanso<br>rence) inc.com  |                                      |   |                                   | AFOLU Palm                                  |   |   |   |  |  |   |  |  | Forest to<br>other nor<br>16 1803 forest                      | D   |  |                         |  |   |   |
|  | ns and Removals from   |                               |   | IPCC 5th Assessment 10<br>Year Values  |  | LEARN Report  | one of the second secon |                                      |   |                                   | AFOLU Palm                                  |   |   |   |  |  |   |  |  | Forest to<br>35 1417 Wetland<br>Forest to                     | o<br>35 1417  |  |                         |  |   |   |
| 3774523 Settlement Forests   | ns and Removals from<br>(USCP Recommended) So<br>ns and Removals from                          | ope 1 V.2                     |   | IPCC 5th Assessment 10<br>Year Values  | 0<br>AFOLU   |   | 016-2019 rv olenec@hanso<br>rence) inc.com   | on- 2024 Jan 5<br>10:11pm            |   | 2019<br>Coas                      | ) AFOLU Palm<br>st                          |   |   |   |  |  |   |  |  | Settleme<br>44 3218 nt  |   |  |                         |  |   |   |
|  | itside of Forests (USCP  | ope 1 V.2                     |   | IPCC 5th Assessment 10<br>Year Values  | AFOLU  |   | 016-2019 rv olenec@hanso<br>rence) inc.com<br>cultural   | on- 2024 Jan 5<br>10:09pm            |   | 2019<br>Coas                      | ) AFOLU Palm<br>st                          |   |   |   |  |  |   |  |  | -28026  |   | 22;  | 222 2222 14370          | ) -42396   |   |   |
|  |  |                               |   |  |  | Census (Flagler<br>Data has been s<br>factor of 0.19 to                 | County)<br>caled by a  |                                      |   |                                   |   |   |   |   |  |  | US<br>Communit                                      |  |  |   |   |  |                         |  |   |   |
|  | ns from Agricultural<br>s (USCP optional) Sc   | ope 1 V.1                     |   | IPCC 5th Assessment 10<br>Year Values  | 0<br>AFOLU Sourc                                       |   | and as a<br>er County rvolenec@hanso<br>inc.com  | on- 2024 Jan 17<br>03:57pm           | 0 200.07  | 2019<br>0 5601.96 Coas            | 9 AFOLU Palm<br>st                          |   | Infinity Infi                                 | Fe  | nteric<br>ermentatio<br>0                                | 200.07   | y Protocol<br>Method A.1<br>0 or A.2                |  |  |   |   |  |                         |  |   |   |
|  |  |                               |   |  |  | 2017 USDA Agr<br>Census (Flagler<br>(AR5 GWP = 28                       | County)<br>Data  |                                      |   |                                   |   |   |   |   |  |  | US  |  |  |   |   |  |                         |  |   |   |
|  | ns from Agricultural   |                               |   | IPCC 5th Assessment 10   | 0  |   | account<br>and as a rvolenec@hanso   |                                      |   |                                   |   |   |   | Fe  | nteric<br>ermentatio                                     |  | Communit<br>y Protocol<br>Method A.1                |  |  |   |   |  |                         |  |   |   |
| 3811251 Fermentation Activitie   | s (USCP optional) Sc   | ope 1 V.1                     |   | Year Values  | AFOLU Sourc  |   | er County inc.com  | 07:32am                              | 0 5601.82   | 0 156850.96                       |   |   | Infinity Infi                                 | nity Infinity n                               | 0  | 5601.82  | 0 or A.2  |  |  |   |   |  |                         |  |   |   |
|  |  |                               |   |  |  | The above data<br>from the United<br>Census Bureau                      | States<br>"On The  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
|  |  | Flor                          | da Power and Light                                  |  |  | Map" tool, the U<br>States Census<br>"County Busine<br>Tables", and the | ureau's<br>s Patterns  |                                      |   | 2010                              | ) PalmCoast                                 |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
| 2019-PalmCoast-Commercial-Elec-Census- Emission<br>3786738 EIA (USCP F           |  | 2019                          | (FPL and  | IPCC 5th Assessment 10<br>Year Values  | 00 Commercial<br>Energy Activi                         | EIA's "State Pro  | ile and cbarsanti@hans<br>s" for inc.com   |                                      | 45802.7188 4.54583375 0.6                             | Com                               | nmercial                                    |   |   |   | 3  | 3.3197171                                      |   | No   |  |   |   | 1662 Low   | 518245.7                | / Infinity Infinity 37.32414                     | 311.8205 27.73422 0.08838   | 8.77E-06 1.2E-06 151846 1388  |
|  |  |                               |   |  |  | from the United<br>Census Bureau'<br>Map" tool, the U                   | States<br>"On The  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
|  |  |                               |   |  |  | States Census<br>"County Busine<br>Tables", and the                     | ureau's<br>s Patterns  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
|  |  | ope 1 I.2.1                   |   | IPCC 5th Assessment 10<br>Year Values<br>IPCC 5th Assessment 10                | Energy Activi  | ty Energy Estimate  |  | 01:58pm                              | 4975.42 0.85869565 0.0                                | .08586957 5022.21891 Com          | 9 PalmCoast<br>Imercial fuel<br>9 PalmCoast | 79000   | 0 Infinity 47.                                | 5330927 Infinity 3                            | 02179237 5.68959309                                      | 0.361701 62.                                   | 98 0.0108696 0.001087                               | 0 No LPG   | 5 79000                                  |   | 13885   | 1662 Low   | Low                     |  |   |   |
| 3789716 Census-EIA Combus  | tion (USCP Required) Sc  | ope 1 I.2.1                   |   | Year Values  | Energy Activi  | The above data<br>from the United                                       | States   | 02:01pm                              | 791.9121 0.14159341 0.0                               | .01415934 799.628941 Com          | nmercial fuel                               | 12885   | 0 Infinity 7.7                                | 5270758 Infinity 0.                           | 48112451 0.92797983 C                                    | 0.0575894 61.                                  | 46 0.010989 0.0010989                               | 0 No Prop  | oane 12885                               |   | 13885   | 1662 Low   | Low                     |  |   |   |
|  |  |                               |   |  |  | Census Bureau'<br>Map" tool, the U<br>States Census                     | nited<br>sureau's  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
| 2019-PalmCoast-Commercial-Fuel-Distillate Emission                               | ,  |                               |   | IPCC 5th Assessment 10   | 0 Commercial Sourc                                     |   | U.S.<br>ile and cbarsanti@hans   | on- 2024 Jan 11                      |   |                                   | 9 PalmCoast                                 |   |   |   |  |  |   | Fue  |  |   |   |  |                         |  |   |   |
| 3789644 Fuel Oil-Census-EIA Combus   | tion (USCP Required) Sc  | ope 1 I.2.1                   |   | Year Values  | Energy Activi  | The above data<br>from the United                                       | States   | 01:59pm                              | 1575.27404 0.23151087 0.0                             | .01543406 1585.84637 Com          | imercial fuel                               | 21299   | 0 Infinity 12.                                | 8152828 Infinity 0.                           | 95417952 1.53395751 0                                    | 0.1142129 73.9                                 | 96 0.0108696 0.0007246                              | 0 No No.   | 2 21299                                  |   | 13885   | 1662 Low   | Low                     |  |   |   |
|  |  |                               |   |  |  | Census Bureau'<br>Map" tool, the U<br>States Census                     | nited<br>sureau's  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
| 2019-PalmCoast-Commercial-Fuel-Gasoline- Emission<br>3789692 Census-EIA Combus   |  | ope 1 I.2.1                   |   | IPCC 5th Assessment 10<br>Year Values  |  |   |  |                                      | 3145.99644 0.5017824 0.                               |                                   | ) PalmCoast<br>Imercial fuel                | 44802   | 0 Infinity 26                                 | 9566787 Infinity 1                            | 90706641 3.22664746 0                                    | 0.2282711 70.3                                 | 22 0.0112 0.0008                                    | 0 No Gas   | oline 44802                              |   | 12995   | 1662 Low   | Low                     |  |   |   |
| 3789692 Census-EIA Combus  |  | рет 1.2.1                     |   |  | Energy Activi  | The above data<br>from the United<br>Census Bureau                      | s pulled<br>States   | 02.01pm                              | 3143.33044 0.3017024 0.                               | 0.0000410 0109.04407 0011         |   | 44002   | 0 Infinity 26.                                | 9300707 mining 1                              | 30700041 3.22004740 0                                    |  | 22 0.0112 0.0000                                    | 0 110 043  |  |   | 13000   | 1002 LOW   | LOW                     |  |   |   |
|  |  |                               |   |  |  | Map" tool, the U<br>States Census<br>"County Busine                     | nited<br>sureau's  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
| 2019-PalmCoast-Commercial-Fuel-Natural Emission<br>3787091 Gas-Census-EIA Combus |  | ope 1 I.2.1                   |   | IPCC 5th Assessment 10<br>Year Values  | 0 Commercial Sourc<br>Energy Activi                    | Tables", and thee andEIA's "State Pro                                   | U.S.   |                                      |   | 2019<br>0.0101984 5424.17202 Com  | PalmCoast                                   | 101984  | 0 Infinity 61.                                | 3622142 Infinity 3                            | 26364141 7.34490457 0                                    | 0.3906498 53.                                  | 02 0.005 0.0001                                     | Nati<br>0 No Gas   | ural<br>101984                           |   | 13885   | 1662 Low   | Low                     |  |   |   |
|  |  |                               |   |  |  | The above data<br>from the United<br>Census Bureau                      | s pulled<br>States   |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
|  |  |                               |   |  |  | Map" tool, the U<br>States Census<br>"County Busine                     | hited<br>Sureau's<br>s Patterns  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         |  |   |   |
| 2019-PalmCoast-Commercial-Fuel-Kerosene- Emission<br>3789668 Census-EIA Combus   | -  | ope 1 I.2.1                   |   | IPCC 5th Assessment 10<br>Year Values  | 00 Commercial Sourc<br>Energy Activi                   | Tables", and thee andEIA's "State Pro                                   | U.S.   | on- 2024 Jan 11<br>02:00pm           |   | 2019<br>.6296E-06 0.9841963 Com   | ) PalmCoast<br>Imercial fuel                | 13  | 0 Infinity 0.                                 | 0078219 Infinity 0                            | 00059218 0.00093626 7                                    | 7.088E-05 75                                   | .2 0.0111111 0.0007407                              | 0 No Kerd  | osene 13                                 |   | 13885   | 1662 Low   | Low                     |  |   |   |
| Solid Waste  |  |                               |   |  |  |   |  |                                      |   |                                   |   |   |   |   |  |  |   |  |  |   |   |  |                         | Were   |   |   |
|  |  |                               |   |  |  |   |  |                                      |   |                                   |   |   | Off   |   | agazines/<br>ird Class Food                              |  | Dimension   |  | Corrugat Magazine                        |   | Dimensio  |  |                         | emission<br>s<br>calculate                       | CH4<br>Released<br>(for   |   |
| Output   |  |                               |   |  |  |   |  |                                      |   |                                   |   | Mixed M<br>Emissio                            | MSW Newspaper Pap<br>ons Emissions Emi        | er Cardboard Ma<br>issions Emissions Er       | ail Scraps G<br>nissions Emissions Er                    | rass Leaves<br>missions Emission               | Branches al Lumber<br>s Emissions Emissions         | Mixed Offi<br>MSW Newspap Pap                                  | ce ed s/Third<br>er Container Class      | Food<br>Scraps Grass Leaves                                   | nal<br>Branches Lumber                              | Waste  |                         | d Landfill<br>externall Total Methane            | Waste Previousl<br>Type to y  | Number Number   |

# Private 66 9 24.37713 0.0183 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0193 0.0148 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0.0015 17.86788 0. 66 9 24.37713 0.0183 0.0083 17.86788 0.0193 0.0148 5.371652 0.0785 0.0633 17.86788 0.0193 0.0148 17.86788 0.0019 0.0015 17.86788 0.0019 0.0019 0.0015 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.0019 0.00 0 0 0

# 7E-06 1.2E-06 151846 13885 Low 665 66 9

# 

0 0.1 0.19 8.1 0.03 0.128 0 0 0 14.99

## Residential

|  | Residential  |  |   |  |  |   |  |   |  |   |  |  |   |  |  |  |
|--|--|--|---|--|--|---|--|---|--|---|--|--|---|--|--|--|
| (  | Dutput Record  |  | GPC R   | Ref  |  |   |  |   |  |   | CO2 CO2<br>Electricity Energy Emissions Emission   |  | N2O N2O C   | Community Energy CO  | ogenic Biogenic<br>D2 CO2<br>nissions Emissions  |  |
|  | ds With Co2e Inventory Record  | Calculator   | Gpc Scope Numbe   | r Factor Profiles<br>Florida Power and Ligh  |  | 0,1   | y Source Notes   | Created By Create   |  | MT) CO2e (MT) Tags  | Equivalent (MMBtu) Factor Factor U   |  |   |  | actor Factor Units   |  |
| 246097   | 3770885 2019-StJohns-County-Residential-Energy-FPL   | Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel   | Scope 2 I.1.2   | 2019 (FPL and eGRID2018 factors)   | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Residential<br>Energy Activit<br>Residential Sourc  | -  | rvolenec@hanson-inc.com 09:33   | m 448903.485 44.5528271 6.0753   | 2019 StJohns<br>38551 451760.941 RESIDENTIAL FPL<br>2019 RESIDENTIAL  | 5079225.032 0.08838031 MT/MME  | tu 8.7716E-06 MT/MMBtu   | 1.1961E-06 MT/MMBtu Bl  | <sup>,</sup> E.2.1   |  |  |
| 247914   | 3801961 2019-StJohns-County-Residential-Fuel-NGas  | Combustion (USCP Required)<br>Emissions from Stationary Fuel   | Scope 1 I.1.1   |  | Year Values<br>IPCC 5th Assessment 100   | Energy Activit<br>Residential Sourc   | y ACSST5Y2019  | rvolenec@hanson-inc.com 09:02   | m 10551.0622 0.99500775 0.0199   |   | 53.02 kg/MMB   | u 0.005 kg/MMBtu   | 0.0001 kg/MMBtu Bl  | BE.1.1 199001.55   | 0 kg/MMBtu   |  |
| 247915   | 3801985 2019-StJohns-County-Residential-Fuel-FuelOil   | Emissions from Stationary Fuel   |   |  | Year Values<br>IPCC 5th Assessment 100   | Energy Activit<br>Residential Sourc   | e and American Community S   | •   | an 17  | 2019 RESIDENTIAL  | 73.96 kg/MMBt  |  | 0.00072464 kg/MMBtu B   |  | 0 kg/MMBtu   |  |
| 247916   | 3802009 2019-StJohns-County-Residential-Fuel-LPG   | Combustion (USCP Required)<br>Emissions from Stationary Fuel   |   |  | Year Values<br>IPCC 5th Assessment 100   |   | e and American Community S   |   | an 17  | 2019 RESIDENTIAL  | 62.98 kg/MMB   | _  | 0.00108696 kg/MMBtu Bl  |  | 0 kg/MMBtu   |  |
| 247917   | 3802033 2019-StJohns-County-Residential-Fuel-Wood<br>Transportation  | Combustion (USCP Required)   | Scope 1 I.1.1   |  | Year Values  | Energy Activit  | y ACSST5Y2019  | rvolenec@hanson-inc.com 09:05   | om 0 1.10972564 0.0147   | 74952 34.9809402 StJohns fuel   | 0 kg/MMBt  | u 0.316 kg/MMBtu   | 0.0042 kg/MMBtu B   | 3E.1.2 3511.79   | 93.8 kg/MMBtu  |  |
|  |  |  |   |  |  |   |  |   |  |   |  |  |   |  |  |  |
|  |  |  |   | )_{  |  |   |  |   |  |   | Fossil Fuel<br>Energy Biofuel  | CO2 CO2  |   | CH4 CH4 N2   |  |  |
|  | Dutput Record<br>ds With Co2e Inventory Record   | Calculator   | GPC R<br>Gpc Scope Numbe  |  | Global Warming Potential   | Category Activit  | y Source Notes   | Created By Created  | ed At CO2 (MT) CH4 (MT) N2O (M   | MT) CO2e (MT) Tags  | Equivalent Energy<br>On Road VMT (MMBtu) (MMBtu)   | Emissions Emissions<br>Factor Factor Units   | Emissions Emissions El<br>Factor Factor Units Fa  |  | nissions Emissions y Protocol<br>actor Factor Units Reference  |  |
|  |  |  |   | Florida Power and Ligh   | nt   |   | The above data is pulle<br>from Google's Environ   | mental  |  |   |  |  |   |  |  |  |
|  |  |  |   | 2019 (FPL and<br>eGRID2018 factors) ar   | nd   | Transmontatio   | Insights platform for S<br>Johns County and calc   |   |  |   |  |  |   |  |  |  |
| 246040   | 3769834 2019-St_Johns-Transportation-Gasoline-GEI  | On Road Transportation (USCP<br>Required)  | Scope 1 II.1.1  | 2019 US National<br>Defaults (updated<br>2020)   | IPCC 5th Assessment 100<br>Year Values   | Transportatio<br>n & Mobile Sourc<br>Sources Activit  | •  | on and 2024<br>mcoalson@hanson-inc.com 10:09  |  | 2019 Gasoline<br>93224 1241029.89 transportation StJohns  | s 3006525637 17524732.3  | 0 0.07024 MT/MMBtu   | 0.0684136 MT/MMBtu  | 1.949E-08 MT/mile  | 1.061E-08 MT/mile TR.1.A   |  |
| 210010   |  |  |   | _0_0)  |  |   | The above data is pulle  |   |  |   |  | c cicro2 + iii   |   |  |  |  |
|  |  |  |   | Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) ar                           |  |   | from Google's Environ<br>Insights platform for S<br>Johns County and calc  | t.  |  |   |  |  |   |  |  |  |
|  |  | On Road Transportation (USCP   |   | 2019 US National<br>Defaults (updated  | IPCC 5th Assessment 100  | Transportatio<br>n & Mobile Sourc   | through ClearPath's  |   | an 4   | 2019 StJohns Diesel   |  |  |   |  |  |  |
| 246141   | 3771758 2019-St_Johns-Transportation-Diesel-GEI  | Required)  | Scope 1 II.1.1  | 2020)  | Year Values  | Sources Activit   | 5  | mcoalson@hanson-inc.com 11:06   |  |   | 311379882.5 6195966.36   | 0 0.07393448 MT/MMBtu  | 0.07377323 MT/MMBtu   | 4.6E-09 MT/mile 4  | 4.394E-09 MT/mile TR.2.C   |  |
|  |  |  |   |  |  |   | Where available  |   |  |   |  |  |   |  |  |  |
|  |  |  |   |  |  |   | Sustainability or ESG<br>reports were used to<br>determine Total GHG   |   |  |   |  |  |   |  |  |  |
|  |  |  |   |  |  |   | Emissions in units of M<br>Tons of CO2e. Sustair   |   |  |   |  |  |   |  |  |  |
|  |  |  |   |  |  |   | or ESG reports were<br>available for the follow  | ing   |  |   |  |  |   |  |  |  |
|  |  |  |   |  |  |   | Railroad Companies a<br>attached: CSX, Union<br>Pacific, Norfolk Southe  |   |  |   |  |  |   |  |  |  |
|  |  |  |   |  |  |   | Where Sustainability o<br>reports were not availa  | r ESG   |  |   |  |  |   |  |  |  |
|  |  |  |   |  |  |   | the AVG emissions pe<br>of track and AVG gallo   | r mile  |  |   |  |  |   |  |  |  |
|  |  |  |   |  |  |   | diesel per mile of track<br>the given County was   | used  |  |   |  |  |   |  |  |  |
|  |  | Rail Transportation (USCP  |   | Florida Power and Ligh<br>2019 (FPL and  | t<br>IPCC 5th Assessment 100   | Transportatio<br>n & Mobile Sourc   | to calculate the total a gallons Diesel and ann GHG emissions. All da  | ual   | an 17  | 2019,StJohns,Rail,Die   | 25   |  |   |  |  |  |
| 247846   | 3800669 2019-StJohns-Rail-Diesel-FDOT  | Recommended)   | Scope 1 II.2.1  | eGRID2018 factors)   | Year Values  | Sources Activit   |  |   |  | 4601 el   |  | 0 MT/MMBtu   |   | 0 MT/MMBtu   | 0 MT/MMBtu   | 88179.33   |
|  | AFOLU  |  |   |  |  |   |  |   |  |   | Canopy   |  |   |  |  |  |
|  |  |  |   |  |  |   |  |   |  |   | Area of<br>Trees US<br>Outside Commun  | V  |   |  |  |  |
|  | Dutput Record<br>ds With Co2e Inventory Record   | Calculator   | GPC R<br>Gpc Scope Numbe  |  | Global Warming Potential   | Category Activit  | y Source Notes   | Created By Created  | d At CO2 (MT) CH4 (MT) N2O (M  | ит) CO2e (MT) Tags  | Land Area (hectares Forest Protocol<br>/ year) (hectares) Reference  |  |   |  |  |  |
| 246302   | 2019-StJohns-County-AFOLU-Undisturbed<br>3774475 Forest  | Emissions and Removals from<br>Forests (USCP Recommended)  |   |  | IPCC 5th Assessment 100<br>Year Values   | AFOLU   | LEARN Report 2016-2<br>(Gainesville reference)   | rvolenec@hanson-inc.com 09:46   | om   | 2019 AFOLU StJohns  | 91245  |  |   |  |  |  |
| 246303   | 2019-StJohns-County-AFOLU-Forest to<br>3774479 Grassland   | Emissions and Removals from<br>Forests (USCP Recommended)  | Scope 1 V.2   |  | IPCC 5th Assessment 100<br>Year Values   | AFOLU   | LEARN Report 2016-2<br>(Gainesville reference)   | rvolenec@hanson-inc.com 09:46   | m  | 2019 AFOLU StJohns  | 2163   |  |   |  |  |  |
| 246305   | 2019-StJohns-County-AFOLU-Non-Forest to<br>3774487 Forest<br>2019-StJohns-County-AFOLU-Forest to   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from   | Scope 1 V.2   |  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | AFOLU   | LEARN Report 2016-2<br>(Gainesville reference)<br>LEARN Report 2016-2  | rvolenec@hanson-inc.com 09:49   | om   | 2019 AFOLU StJohns  | 3341   |  |   |  |  |  |
| 246306   | 3774491 Settlement<br>2019-StJohns-County-AFOLU-Forest to Other  | Forests (USCP Recommended)<br>Emissions and Removals from  | ·   |  | Year Values<br>IPCC 5th Assessment 100   | AFOLU   | (Gainesville reference)<br>LEARN Report 2016-2   | rvolenec@hanson-inc.com 09:50   | m  | 2019 AFOLU StJohns  |  |  |   |  |  |  |
| 246307   | 3774495 Non-Forest<br>2019-StJohns-County-AFOLU-Forest to  | Forests (USCP Recommended)<br>Emissions and Removals from  | Scope 1 V.2   |  | Year Values<br>IPCC 5th Assessment 100   | AFOLU   | (Gainesville reference)<br>LEARN Report 2016-2   |   |  | 2019 AFOLU StJohns  | 88   |  |   |  |  |  |
|  |  |  | 0   |  |  |   | •  |   |  |   | 0  |  |   |  |  |  |
| 246308<br>246309   | 3774499 Cropland<br>2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland   | Forests (USCP Recommended)<br>Emissions and Removals from<br>Forests (USCP Recommended)  | -   |  | Year Values<br>IPCC 5th Assessment 100   | AFOLU   | (Gainesville reference)<br>LEARN Report 2016-2   | rvolenec@hanson-inc.com 09:52<br>2019 2024  | om<br>Ian 5  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns  |  |  |   |  |  |  |
| 246309   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of   |  | Scope 1 V.2   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100   | AFOLU   | (Gainesville reference)  | rvolenec@hanson-inc.com 09:52<br>2019 2024<br>rvolenec@hanson-inc.com 09:52<br>2019 2024  | om<br>lan 5<br>om<br>lan 5   | 2019 AFOLU StJohns  | 535  |  |   |  |  |  |
| 246309<br>246304   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended)<br>Emissions from Agricultural  | Scope 1 V.2<br>Scope 1 V.2  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100   | AFOLU   | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura   | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2024 2024<br>2024 2024<br>2024 2024<br>2024 2024<br>2024 2024  | om<br>lan 5<br>om<br>lan 5<br>om<br>lan 16   | 2019 AFOLU StJohns<br>2019 AFOLU StJohns  | 535<br>535<br>12222  |  |   |  |  |  |
| 246309<br>246304<br>247796   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100   | AFOLU<br>AFOLU<br>AFOLU Sourc   | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>e Census<br>2017 USDA Agricultura  | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:48<br>2024 2024 2024 2024 2024 2024 2024 2024  | om<br>lan 5<br>om<br>lan 5<br>om<br>lan 16<br>om 0 552.43<br>lan 22  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns   | 535<br>12222<br>A.1  |  |   |  |  |  |
| 246309<br>246304   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)  | Scope 1 V.2<br>Scope 1 V.2  |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU   | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>2017 USDA Agricultura  | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:48<br>2024 2024 2024 2024 2024 2024 2024 2024  | om<br>lan 5<br>om<br>lan 5<br>om<br>lan 16<br>om 0 552.43<br>lan 22  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns  | 535<br>535<br>12222  |  |   |  |  |  |
| 246309<br>246304<br>247796   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1   |  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100   | AFOLU<br>AFOLU<br>AFOLU Sourc   | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>e Census<br>2017 USDA Agricultura  | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:48<br>2024 2024 2024 2024 2024 2024 2024 2024  | om<br>lan 5<br>om<br>lan 5<br>om<br>lan 16<br>om 0 552.43<br>lan 22  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns   | 535<br>12222<br>A.1<br>A.1   | СНИ СНИ  |   | JS CO  |  | Bioge<br>Biogenic CO2  |
| 246309<br>246304<br>247796<br>248458   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>GPC R   | Ref<br>er Factor Profiles  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100   | AFOLU<br>AFOLU Sourc<br>AFOLU Sourc   | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>e Census<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1   | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:48<br>2024 2024 2024 2024 2024 2024 2024 2024  | om<br>lan 5<br>om<br>lan 5<br>om<br>lan 16<br>om 0 552.43<br>lan 22<br>om 0 15468  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Emission   |  | N2O N2O C<br>Emissions Emissions P  | Community Energy Em<br>Protocol Equivalent Fac   | D2 CH4 Emissions<br>nissions Emissions Factor<br>actor Factor (kg/MMBt   | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto                                     |
| 246309<br>246304<br>247796<br>248458   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1  | Ref<br>er Factor Profiles  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU<br>AFOLU Sourc<br>AFOLU Sourc   | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>2017 USDA Agricultura</li> <li>Census</li> <li>2017 USDA Agricultura</li> <li>Census (AR5 GWP = 3)</li> </ul>   | rvolenec@hanson-inc.com 09:52<br>2019<br>rvolenec@hanson-inc.com 09:52<br>2024 a<br>2024 a  | om<br>lan 5<br>om<br>lan 5<br>om<br>lan 16<br>om 0 552.43<br>lan 22  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Emission   | s Emissions Emissions  | N2O N2O C<br>Emissions Emissions P  | Community Energy Em<br>Protocol Equivalent Fac   | D2 CH4 Emissions<br>nissions Emissions Factor<br>actor Factor (kg/MMBt   | Biogenic CO2<br>CO2 Emiss  |
| 246309<br>246304<br>247796<br>248458   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>GPC R   | Ref<br>er Factor Profiles  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU<br>AFOLU Sourc<br>AFOLU Sourc   | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>2017 USDA Agricultura</li> <li>Census</li> <li>2017 USDA Agricultura</li> <li>Census (AR5 GWP = 3)</li> </ul>   | rvolenec@hanson-inc.com       09:52         2019       rvolenec@hanson-inc.com       09:52         2019       2024         o       rvolenec@hanson-inc.com       09:48         al       2024         rvolenec@hanson-inc.com       09:48         2024       2024         al       2024         rvolenec@hanson-inc.com       10:21         al       2024         28)       rvolenec@hanson-inc.com       07:34         created By       Created         chanson-inc.com       07:34   | om<br>lan 5<br>om<br>lan 5<br>om<br>lan 16<br>om 0 552.43<br>lan 22<br>om 0 15468  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Emission   | s Emissions Emissions  | N2O N2O C<br>Emissions Emissions P  | Community Energy Em<br>Protocol Equivalent Fac   | D2 CH4 Emissions<br>nissions Emissions Factor<br>actor Factor (kg/MMBt   | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto                                     |
| 246309<br>246304<br>247796<br>248458   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>GPC R   | er Factor Profiles   | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU<br>AFOLU Sourc<br>AFOLU Sourc   | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>e Census<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1<br>y Source Notes<br>The above data is pulle<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United S<br>Census Bureau's "Cou<br>Business Patterns Tab   | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:48<br>2024 2024 2024 2024 2024 2024 2024 2024  | om<br>lan 5<br>om<br>lan 5<br>om<br>lan 16<br>om 0 552.43<br>lan 22<br>om 0 15468  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Emission   | s Emissions Emissions  | N2O N2O C<br>Emissions Emissions P  | Community Energy Em<br>Protocol Equivalent Fac   | D2 CH4 Emissions<br>nissions Emissions Factor<br>actor Factor (kg/MMBt   | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto                                     |
| 246309<br>246304<br>247796<br>248458   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>GPC R   | Ref<br>er Factor Profiles<br>Florida Power and Ligh<br>2019 (FPL and<br>eGRID2018 factors) | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU<br>AFOLU Sourc<br>AFOLU Sourc<br>Category Activit   | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>2017 USDA Agricultura</li> <li>Census</li> <li>2017 USDA Agricultura</li> <li>Census (AR5 GWP = 3</li> </ul>  | rvolenec@hanson-inc.com09:522019rvolenec@hanson-inc.com09:522019202420242019202420242019202409:4820220242024al2024202428)rvolenec@hanson-inc.com10:2128)rvolenec@hanson-inc.com07:34created ByCreated07:34cbarsanti@hanson-inc.com07:37   | an 5<br>om<br>lan 5<br>om<br>lan 16<br>om 0 552.43<br>lan 22<br>im 0 15468   | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>WT) CO2e (MT) Tags<br>2019 StJohns   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>Electricity Energy<br>Equivalent (MMBtu)<br>CO2<br>Emissions<br>Factor U<br>Encor U   | Emissions Emissions<br>its Factor Factor Units   | N2O N2O C<br>Emissions Emissions P  | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg  | D2 CH4 Emissions<br>nissions Emissions Factor<br>actor Factor (kg/MMBt   | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto                                     |
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| 246309<br>246304<br>247796<br>248458<br>Id 1   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Outside of<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>Output Record<br>ds With Co2e Inventory Record<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>Gpc Scope GPC R<br>Number                                     | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU AFOLU Source AFOLU Source AFOLU Source Commercial Energy Activit  | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>2017 USDA Agricultura<br/>Census</li> <li>2017 USDA Agricultura</li> <li>Census (AR5 GWP = 1)</li> </ul>   | <ul> <li>rvolenec@hanson-inc.com 09:52</li> <li>rvolenec@hanson-inc.com 09:52</li> <li>rvolenec@hanson-inc.com 09:48</li> <li>2024</li> <li>rvolenec@hanson-inc.com 10:21</li> <li>2024</li> <li>rvolenec@hanson-inc.com 07:34</li> </ul> Created By Created Created By Created Created Created Created Created Created States nty Created Created Created Created States to barsanti@hanson-inc.com 07:37 States to barsanti@hanson-inc.com 07:37 States to barsanti@hanson-inc.com 07:37 States to barsanti@hanson-inc.com 08:37 States nty   | an 5<br>m<br>lan 5<br>m<br>lan 16<br>m 0 552.43<br>lan 22<br>m 0 15468<br>d At CO2 (MT) CH4 (MT) N2O (M<br>lan 10<br>m 262077.181 26.0106676 3.5469  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>MT) CO2e (MT) Tags<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Factor U<br>2965334.471 0.08838031 MT/MME  | Emissions Emissions<br>its Factor Factor Units   | N2O N2O Ca<br>Emissions Emissions Pactor Factor Factor Units Rational for the second seco   | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg  | D2 CH4 Emissions<br>nissions Emissions Factor<br>actor Factor (kg/MMBt<br>g/MMBtu) (kg/MMBtu) u)   | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto<br>Factor Units                     |
| 246309<br>246304<br>247796<br>248458<br>Id 1   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Formentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Elec-Census-EIA   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>Gpc Scope GPC R<br>Number                                     | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUCategoryActivitCommercial<br>EnergyActivit   | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>2017 USDA Agriculturate</li> <li>Census</li> <li>2017 USDA Agriculturate</li> <li>Census (AR5 GWP = 1</li> </ul> y Source Notes <ul> <li>The above data is pulked from the United States</li> <li>Census Bureau's "On Map" tool, the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Profile and Energy</li> <li>y Estimates" for Florida.</li> <li>The above data is pulked from the United States</li> <li>Census Bureau's "On Map" tool, the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Y Estimates" for Florida.</li> <li>The above data is pulked from the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Profile and Energy</li> <li>Y Estimates" for Florida.</li> <li>The above data is pulked from the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> </ul>   | volenec@hanson-inc.com 09:52<br>2019 volenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:48<br>2024 volenec@hanson-inc.com 10:21<br>2024 2024 2024 2024 2024 2024 2024 2024   | en 5<br>en 5<br>en 16<br>en 16<br>en 22<br>en 22<br>en 0 552.43<br>an 22<br>en 0 15468<br>en 4 CO2 (MT) CH4 (MT) N2O (M<br>en 10<br>en 262077.181 26.0106676 3.5469<br>en 30939.2378 2.917695 0.058  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>MT) CO2e (MT) Tags<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Factor U<br>2965334.471 0.08838031 MT/MME  | Emissions Emissions<br>its Factor Factor Units   | N2O N2O Ca<br>Emissions Emissions Pactor Factor Factor Units Rational for the second seco   | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg  | D2 CH4 Emissions<br>nissions Emissions Factor<br>actor Factor (kg/MMBt<br>g/MMBtu) (kg/MMBtu) u)   | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto<br>Factor Units                     |
| 246309<br>246304<br>247796<br>248458<br>Id 1   | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>Output Record<br>ds With Co2e Inventory Record<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>Gpc Scope GPC R<br>Number                                     | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUCategoryActivitCommercial<br>EnergyActivit   | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>2017 USDA Agricultura</li> <li>census</li> <li>2017 USDA Agricultura</li> <li>census (AR5 GWP = 1</li> </ul>  | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:48<br>al rvolenec@hanson-inc.com 10:21<br>2024 .<br>2024 .<br>20   | an 5<br>m<br>lan 5<br>m<br>lan 16<br>m<br>0 552.43<br>lan 22<br>m 0 15468<br>d At CO2 (MT) CH4 (MT) N2O (M<br>lan 10<br>m 262077.181 26.0106676 3.5469<br>lan 10<br>m 30939.2378 2.917695 0.058  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>MT) CO2e (MT) Tags<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>Electricity Energy Emissions Factor U<br>2965334.471 0.08838031 MT/MME  | Emissions Emissions<br>Factor Factor Units   | N2O N2O Ca<br>Emissions Emissions Pactor Factor Factor Units Rational for the second seco   | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg  | D2 CH4 Emissions<br>nissions Emissions Factor<br>actor Factor (kg/MMBt<br>g/MMBtu) (kg/MMBtu) u)   | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto<br>Factor Units                     |
| 246309<br>246304<br>247796<br>248458<br>Id 246916  | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>Output Record<br>ds With Co2e Inventory Record<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 V.2<br>Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>Gpc Scope GPC R<br>Number<br>Scope 2 I.2.2                    | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU<br>AFOLU Source<br>AFOLU Source<br>Category Activit<br>Commercial<br>Energy Source<br>Activit   | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>2017 USDA Agriculturate</li> <li>Census</li> <li>2017 USDA Agriculturate</li> <li>Census (AR5 GWP = 1</li> </ul> y Source Notes <ul> <li>The above data is pulked from the United States</li> <li>Census Bureau's "On Map" tool, the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Y Estimates" for Florida.</li> <li>The above data is pulked from the United States</li> <li>Census Bureau's "On Map" tool, the United States</li> <li>Census Bureau's "On Map" tool, the United States</li> <li>Census Bureau's "On Map" tool, the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabaand the U.S. EIA's "States</li> </ul>   | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:48<br>2024<br>rvolenec@hanson-inc.com 10:21<br>2024<br>2024<br>rvolenec@hanson-inc.com 07:34<br>rvolenec@hanson-inc.com 07:34<br>cbarsanti@hanson-inc.com 07:37<br>ed<br>the<br>States<br>nty<br>bles",<br>ate<br>cbarsanti@hanson-inc.com 08:37<br>ed<br>the<br>States<br>nty<br>bles",<br>ate<br>cbarsanti@hanson-inc.com 08:37   | an 5<br>m<br>lan 5<br>m<br>lan 16<br>m<br>0 552.43<br>lan 22<br>m 0 15468<br>d At CO2 (MT) CH4 (MT) N2O (M<br>lan 10<br>m 262077.181 26.0106676 3.5469<br>lan 10<br>m 30939.2378 2.917695 0.058  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>MT) CO2e (MT) Tags<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns   | 535<br>12222<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1<br>A.1   | Emissions Emissions<br>Factor Factor Units   | N2O N2O CA<br>Emissions Emissions Pr<br>Factor Factor Units Ra<br>1.1961E-06 MT/MMBtu Bl<br>kg/MMBtu  | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg<br>3E.2.1<br>583539  | D2CH4Emissions<br>Factor<br>(kg/MMBt)<br>u)actorFactor(kg/MMBt)<br>u)g/MMBtu)(kg/MMBtu)u)53.020.0050.0001  | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto<br>Factor Units                     |
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Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk   | rvolenec@hanson-inc.com 09:52<br>2019 rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 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09:52<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2 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| 246309<br>246304<br>247796<br>248458<br>Id 248458<br>246916  | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>2019Ut Record<br>ds With Co2e Inventory Record<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>Gpc Scope GPC R<br>Number<br>Scope 2 I.2.2<br>Scope 1 I.2.1                  | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySource<br>ActivitCommercial<br>EnergySource<br>ActivitCommercial<br>EnergySource<br>Activit                               | <ul> <li>(Gainesville reference)</li> <li>LEARN Report 2016-2<br/>(Gainesville reference)</li> <li>2017 USDA Agriculturate</li> <li>Census</li> <li>2017 USDA Agriculturate</li> <li>Census (AR5 GWP = 1)</li> </ul> y Source Notes <ul> <li>The above data is pulked from the United States</li> <li>Census Bureau's "On Map" tool, the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "State</li> <li>Profile and Energy</li> <li>y Estimates" for Florida.</li> <li>The above data is pulked from the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "State</li> <li>Profile and Energy</li> <li>y Estimates" for Florida.</li> <li>The above data is pulked from the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "State</li> <li>Profile and Energy</li> <li>y Estimates" for Florida.</li> <li>The above data is pulked from the United States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>and the U.S. EIA's "States</li> <li>Census Bureau's "Coure</li> <li>Business Patterns Tabe</li> <li>Business Patterns Tabe</li> <li>Business Patterns Tabe</li> <li>Census</li></ul>  | rvolenec@hanson-inc.com 09:52<br>2019<br>rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:48<br>2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>2024<br>2024<br>2024<br>2024<br>2024<br>2024<br>20  | an 5<br>m 1<br>an 16<br>m 0 552.43<br>an 22<br>m 0 15468<br>an 10<br>m 262077.181 26.0106676 3.5469<br>an 10<br>m 30939.2378 2.917695 0.058<br>an 11<br>28468.5345 4.91331522 0.4913<br>an 11  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>VIT) CO2e (MT) Tags<br>2019 StJohns<br>2019 StJohns  | 535           12222           A.1           A.2           A.2  | Emissions Emissions<br>Factor Units<br>a. 8.7716E-06 MT/MMBtu<br>kg/MMBtu<br>kg/MMBtu  | N2O N2O CA<br>Emissions Emissions PA<br>Factor Units Rational States of the second states of the se  | Sommunity Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg<br>3E.2.1<br>583539<br>452025  | D2CH4Emissions<br>Factor<br>(kg/MMBt<br>g/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsCh4Sissions </td <td>Biogenic CO2<br/>CO2 Emiss<br/>Emissions 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| 246309<br>246304<br>247796<br>248458<br>Id 248458<br>246916  | 2019-StJohns-County-AFOLU-Forest to<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>Dutput Record<br>ds With Co2e Inventory Record<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>Gpc Scope GPC R<br>Number<br>Scope 2 I.2.2<br>Scope 1 I.2.1                  | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySourc<br>ActivitCommercial<br>EnergySourc<br>ActivitCommercial<br>EnergySourc<br>Activit                                  | <ul> <li>(Gainesville reference)</li> <li>LEARN Report 2016-2</li> <li>(Gainesville reference)</li> <li>2017 USDA Agricultura</li> <li>2017 the United States</li> <li>2018 Census Bureau's "On Map" tool, the United States</li> <li>2019 Census Bureau's "Cou</li> <li>2019 Business Patterns Tab</li> <li>2010 Agri tool, the United States</li> <li>2010 Census Bureau's "Cou</li> <li>2011 Business Patterns Tab</li> <li>2012 Agricultura (Scensus Bureau's "On Map" tool, the United States</li> <li>2013 Census Bureau's "Cou</li> <li>2014 Business Patterns Tab</li> <li>2014 The above data is pulled from the United States</li> <li>2015 Census Bureau's "Cou</li> <li>2016 Business Patterns Tab</li> <li>2017 He United States</li> <li>2018 Census Bureau's "Cou</li> <li>2018 Business Patterns Tab</li> <li>2019 Agriteria</li> <li>2010 Agriteria</li> <li>201</li></ul>   | rvolenec@hanson-inc.com 09:52<br>2019<br>rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:48<br>2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>2024<br>2024<br>2024<br>2024<br>2024<br>2024<br>20   | en 5<br>m 5<br>m 0 552.43<br>lan 16<br>m 0 15468<br>en 10<br>m 262077.181 26.0106676 3.5469<br>lan 10<br>m 30939.2378 2.917695 0.058<br>lan 11<br>m 28468.5345 4.91331522 0.4913<br>lan 11<br>m 9013.43124 1.32466304 0.0883   | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>MT) CO2e (MT) Tags<br>2019 StJohns<br>2019 StJohns<br>33152 28736.3102 2019 StJohns<br>33152 28736.3102 2019 StJohns<br>33152 2019 StJohns<br>33152 2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns   | 535           12222           A.1           A.2           A.2  | Emissions Emissions<br>Factor Units<br>a. 8.7716E-06 MT/MMBtu<br>kg/MMBtu<br>kg/MMBtu  | N2O N2O CA<br>Emissions Emissions PA<br>Factor Units Rational States of the second states of the se  | Sommunity Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg<br>3E.2.1<br>583539<br>452025  | D2CH4Emissions<br>Factor<br>(kg/MMBt<br>g/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsCh4Sissions </td <td>Biogenic CO2<br/>CO2 Emiss<br/>Emissions Facto<br/>Factor Units<br/>0 kg/Mi</td> | Biogenic CO2<br>CO2 Emiss<br>Emissions Facto<br>Factor Units<br>0 kg/Mi          |
| 246309<br>246304<br>247796<br>248458<br>Id 248458<br>246916  | 2019-StJohns-County-AFOLU-Forest to<br>3774503 Wetland<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>2019Ut Record<br>ds With Co2e Inventory Record<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>Gpc Scope GPC R<br>Number<br>Scope 2 I.2.2<br>Scope 1 I.2.1                  | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySource<br>ActivitCommercial<br>EnergySource<br>ActivitCommercial<br>EnergySource<br>Activit                               | <ul> <li>(Gainesville reference)</li> <li>LEARN Report 2016-2</li> <li>(Gainesville reference)</li> <li>2017 USDA Agricultura</li> <li>e Census</li> <li>2017 USDA Agricultura</li> <li>e Census (AR5 GWP = 1</li> </ul> y Source Notes <ul> <li>The above data is pulle from the United States</li> <li>Census Bureau's "On Map" tool, the United States</li> <li>Census Bureau's "Cou Business Patterns Tab and the U.S. EIA's "State Profile and Energy</li> <li>y Estimates" for Florida.</li> <li>The above data is pulle from the United States</li> <li>Census Bureau's "Cou Business Patterns Tab and the U.S. EIA's "State Profile and Energy</li> <li>y Estimates" for Florida.</li> <li>The above data is pulle from the United States</li> <li>Census Bureau's "Cou Business Patterns Tab and the U.S. EIA's "State and the U.S. EIA'</li></ul>  | rvolenec@hanson-inc.com 09:52<br>2024 .<br>2019<br>rvolenec@hanson-inc.com 09:52<br>2024 .<br>2024 .<br>2025 .<br>2024 .  | an 5<br>m 10<br>10 552.43<br>10 552.43<br>10 15468<br>10 At CO2 (MT) CH4 (MT) N2O (M<br>10 At CO2 (MT) CH4 (MT)  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>VIT) CO2e (MT) Tags<br>2019 StJohns<br>2019 StJohns  | 535           12222           A.1           A.2           A.2  | Emissions Emissions<br>Factor Factor Units<br>a. 8.7716E-06 MT/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | N2O N2O CA<br>Emissions Emissions PA<br>Factor Units Rational States of the second states of the se  | Sommunity Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg<br>3E.2.1<br>583539<br>452025  | D2CH4Emissions<br>Factor<br>(kg/MMBt<br>g/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsFactor<br>(kg/MMBtu)SissionsCh4EmissionsFactor<br>(kg/MMBtu)SissionsCh4Sissions </td <td>Biogenic CO2<br/>CO2 Emiss<br/>Factor Units<br/>0 kg/Mi<br/>0 kg/Mi</td>         | Biogenic CO2<br>CO2 Emiss<br>Factor Units<br>0 kg/Mi<br>0 kg/Mi                  |
| 246309<br>246304<br>247796<br>248458<br>246916<br>246916   | 2019-StJohns-County-AFOLU-Forest to<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>2019-StJohns-Commercial-Elec-Census-EIA<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fuel<br>3789764 Oil-Census-EIA  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1V.2Scope 1V.2Scope 1V.1Scope 1V.1Gpc ScopeGPC R<br>NumberScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                      | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUCategoryCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySourc<br>Activit                  | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>e Census<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1<br>2017 USDA Agricultura<br>e Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "On  | rvolenec@hanson-inc.com 09:52<br>2024.<br>rvolenec@hanson-inc.com 09:52<br>2024.<br>rvolenec@hanson-inc.com 09:48<br>2024.<br>rvolenec@hanson-inc.com 07:34<br>2024.<br>rvolenec@hanson-inc.com 07:34<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>07:37<br>ed<br>i<br>The<br>States<br>nty<br>ples",<br>ate<br>cbarsanti@hanson-inc.com 20:37<br>ed<br>i<br>The<br>States<br>nty<br>ples",<br>ate<br>cbarsanti@hanson-inc.com 20:4<br>cbarsanti@hanson-inc.com 20  | an 5<br>m 10<br>10 552.43<br>10 552.43<br>10 15468<br>10 At CO2 (MT) CH4 (MT) N2O (M<br>10 At CO2 (MT) CH4 (MT)  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>VIT) CO2e (MT) Tags<br>100922 263745.411 2019 StJohns<br>100922 263745.411 Commercial Electricity<br>100922 263745.411 Commercial fuel<br>100922 263745.411 2019 StJohns<br>100922 263745.412 2019 StJohns<br>100922 2019 StJohns  | 535         12222         A.1         A.2         A.2 <td< td=""><td>Emissions Emissions<br/>Factor Factor Units<br/>a. 8.7716E-06 MT/MMBtu<br/>kg/MMBtu<br/>kg/MMBtu</td><td>N2O N2O C<br/>Emissions Factor Units R<br/>1.1961E-06 MT/MMBtu B<br/>kg/MMBtu<br/>kg/MMBtu<br/>kg/MMBtu</td><td>Community Energy Em<br/>Protocol Equivalent Fac<br/>Reference (MMBtu) (kg<br/>38E.2.1<br/>583539<br/>452025<br/>121869</td><td>D2         CH4         Emissions         Factor           inissions         Emissions         Factor         (kg/MMBt)           g/MMBtu)         (kg/MMBtu)         u)           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725</td><td>Biogenic CO2<br/>CO2 Emiss<br/>Factor Units<br/>0 kg/Mi<br/>0 kg/Mi</td></td<>   | Emissions Emissions<br>Factor Factor Units<br>a. 8.7716E-06 MT/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | N2O N2O C<br>Emissions Factor Units R<br>1.1961E-06 MT/MMBtu B<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu  | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg<br>38E.2.1<br>583539<br>452025<br>121869   | D2         CH4         Emissions         Factor           inissions         Emissions         Factor         (kg/MMBt)           g/MMBtu)         (kg/MMBtu)         u)           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725   | Biogenic CO2<br>CO2 Emiss<br>Factor Units<br>0 kg/Mi<br>0 kg/Mi                  |
| 246309<br>246304<br>247796<br>248458<br>246916<br>246916   | 2019-StJohns-County-AFOLU-Forest to<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>2019-StJohns-Commercial-Elec-Census-EIA<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fuel<br>3789764 Oil-Census-EIA  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1V.2Scope 1V.2Scope 1V.1Scope 1V.1Gpc ScopeGPC R<br>NumberScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                      | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUCategoryCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySourc<br>Activit                  | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)<br/>2017 USDA Agricultura<br/>e Census<br/>2017 USDA Agricultura<br/>e Census (AR5 GWP = 1000<br/>2017 USDA Agricultura<br/>e Census (AR5 GWP = 1000<br/>2017 USDA Agricultura<br/>e Census (AR5 GWP = 10000<br/>Map" tool, the United States<br/>Census Bureau's "On<br/>Map" tool, the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>Profile and Energy<br/>y Estimates" for Florida.<br/>The above data is pulle<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>Profile and Energy<br/>y Estimates" for Florida.<br/>The above data is pulle<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy<br/>y Estimates" for Florida.<br/>The above data is pulle<br/>from the United States<br/>Census Bureau's "On<br/>Map" tool, the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy<br/>y Estimates" for Florida.<br/>The above data is pulle<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy<br/>y Estimates" for Florida.<br/>The above data is pulle<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy<br/>y Estimates" for Florida.<br/>The above data is pulle<br/>from the United States<br/>Census Bureau's "Con<br/>Map" tool, the Unite</li></ul>             | rvolenec@hanson-inc.com 09:52<br>2024.<br>rvolenec@hanson-inc.com 09:52<br>2024.<br>rvolenec@hanson-inc.com 09:48<br>2024.<br>rvolenec@hanson-inc.com 07:34<br>2024.<br>rvolenec@hanson-inc.com 07:34<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.<br>2024.   | an 5<br>m 10<br>10 552.43<br>10 552.43<br>10 15468<br>10 At CO2 (MT) CH4 (MT) N2O (M<br>10 At CO2 (MT) CH4 (MT)  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>VIT) CO2e (MT) Tags<br>100922 263745.411 2019 StJohns<br>100922 263745.411 Commercial Electricity<br>100922 263745.411 Commercial fuel<br>100922 263745.411 2019 StJohns<br>100922 263745.412 2019 StJohns<br>100922 2019 StJohns  | 535         12222         A.1         A.2         A.2 <td< td=""><td>Emissions Emissions<br/>Factor Factor Units<br/>a. 8.7716E-06 MT/MMBtu<br/>kg/MMBtu<br/>kg/MMBtu</td><td>N2O N2O C<br/>Emissions Factor Units R<br/>1.1961E-06 MT/MMBtu B<br/>kg/MMBtu<br/>kg/MMBtu<br/>kg/MMBtu</td><td>Community Energy Em<br/>Protocol Equivalent Fac<br/>Reference (MMBtu) (kg<br/>38E.2.1<br/>583539<br/>452025<br/>121869</td><td>D2         CH4         Emissions         Factor           inissions         Emissions         Factor         (kg/MMBt)           g/MMBtu)         (kg/MMBtu)         u)           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725</td><td>Biogenic CO2<br/>CO2 Emiss<br/>Factor Units<br/>0 kg/Mi<br/>0 kg/Mi</td></td<>   | Emissions Emissions<br>Factor Factor Units<br>a. 8.7716E-06 MT/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | N2O N2O C<br>Emissions Factor Units R<br>1.1961E-06 MT/MMBtu B<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu  | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg<br>38E.2.1<br>583539<br>452025<br>121869   | D2         CH4         Emissions         Factor           inissions         Emissions         Factor         (kg/MMBt)           g/MMBtu)         (kg/MMBtu)         u)           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725   | Biogenic CO2<br>CO2 Emiss<br>Factor Units<br>0 kg/Mi<br>0 kg/Mi                  |
| 246309<br>246304<br>247796<br>248458<br>246916<br>246916   | 2019-StJohns-County-AFOLU-Forest to<br>3774485 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation<br>2019-StJohns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>2019-StJohns-Commercial-Elec-Census-EIA<br>3786716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fuel<br>3789764 Oil-Census-EIA  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCF<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1V.2Scope 1V.2Scope 1V.1Scope 1V.1Gpc ScopeGPC R<br>NumberScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                      | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUCategoryCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySourc<br>Activit                  | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)<br/>2017 USDA Agricultura<br/>census</li> <li>2017 USDA Agricultura<br/>e Census</li> <li>2017 USDA Agricultura<br/>e Census (AR5 GWP = 1</li> <li>2017 USDA Agricultura<br/>e Census (AR5 GWP = 1</li> <li>2017 USDA Agricultura<br/>e Census Bureau's "On<br/>Map" tool, the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>Profile and Energy</li> <li>y Estimates" for Florida.<br/>The above data is pulk<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>Profile and Energy</li> <li>y Estimates" for Florida.<br/>The above data is pulk<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy</li> <li>y Estimates" for Florida.<br/>The above data is pulk<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy</li> <li>y Estimates" for Florida.<br/>The above data is pulk<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy</li> <li>y Estimates" for Florida.<br/>The above data is pulk<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy</li> <li>y Estimates" for Florida.<br/>The above data is pulk<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy</li> <li>y Estimates" for Florida.<br/>The above data is pulk<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>e and Profile and Energy</li> <li>y Estimates" for Florida.<br/>The above data is pulk<br/>from the United States<br/>Census Bureau's "Cou<br/>Business Patterns Tab<br/>and the U.S. EIA's "Sta<br/>and the U.S. EIA's "Sta</li> </ul>  | rvolenec@hanson-inc.com 09:52<br>2024.<br>rvolenec@hanson-inc.com 09:52<br>2024.<br>rvolenec@hanson-inc.com 09:48<br>2024.<br>rvolenec@hanson-inc.com 07:34<br>28) rvolenec@hanson-inc.com 07:34<br>28) rvolenec@hanson-inc.com 07:34<br>cbarsanti@hanson-inc.com 07:37<br>ate cbarsanti@hanson-inc.com 08:37<br>ate cbarsanti@hanson-inc.com 08:37<br>ate cbarsanti@hanson-inc.com 08:37<br>ate cbarsanti@hanson-inc.com 02:04<br>i The States<br>rhy<br>ed i the states rhy<br>iles", ate cbarsanti@hanson-inc.com 02:04<br>i the states rhy<br>iles", ate cbarsanti@hanson-inc.com 02:04<br>i the states rhy<br>iles", ate cbarsanti@hanson-inc.com 02:05<br>i the states rhy iles", ate cbarsanti@hanson-inc.com 02:  | Iman 5<br>Iman 5<br>Iman 16<br>Iman 10<br>Iman 22<br>Iman 22<br>Iman 22<br>Iman 22<br>Iman 2<br>Iman 2<br>Iman 2<br>Iman 10<br>Iman 2<br>Iman 10<br>Iman 2<br>Iman 2 | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>VIT) CO2e (MT) Tags<br>100922 263745.411 2019 StJohns<br>100922 263745.411 Commercial Electricity<br>100922 263745.411 Commercial fuel<br>100922 263745.411 2019 StJohns<br>100922 263745.412 2019 StJohns<br>100922 2019 StJohns  | 535         12222         A.1         A.2         A.2 <td< td=""><td>Emissions Emissions<br/>Factor Factor Units<br/>a. 8.7716E-06 MT/MMBtu<br/>kg/MMBtu<br/>kg/MMBtu</td><td>N2O N2O C<br/>Emissions Factor Units R<br/>1.1961E-06 MT/MMBtu B<br/>kg/MMBtu<br/>kg/MMBtu<br/>kg/MMBtu</td><td>Community Energy Em<br/>Protocol Equivalent Fac<br/>Reference (MMBtu) (kg<br/>38E.2.1<br/>583539<br/>452025<br/>121869</td><td>D2         CH4         Emissions         Factor           inissions         Emissions         Factor         (kg/MMBt)           g/MMBtu)         (kg/MMBtu)         u)         u)           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725</td><td>Biogenic CO2<br/>CO2 Emiss<br/>Factor Units<br/>0 kg/Mi<br/>0 kg/Mi</td></td<>  | Emissions Emissions<br>Factor Factor Units<br>a. 8.7716E-06 MT/MMBtu<br>kg/MMBtu<br>kg/MMBtu   | N2O N2O C<br>Emissions Factor Units R<br>1.1961E-06 MT/MMBtu B<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu  | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg<br>38E.2.1<br>583539<br>452025<br>121869   | D2         CH4         Emissions         Factor           inissions         Emissions         Factor         (kg/MMBt)           g/MMBtu)         (kg/MMBtu)         u)         u)           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725  | Biogenic CO2<br>CO2 Emiss<br>Factor Units<br>0 kg/Mi<br>0 kg/Mi                  |
| 246309<br>246304<br>247796<br>248458<br>246916<br>246916   | 2019-St.Johns-County-AFOLU-Forest to<br>377485 Forests<br>2019-St.Johns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-St.Johns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>20tput Record<br>ds With Co2e Inventory Record<br>3786716 2019-St.Johns-Commercial-Elec-Census-EIA<br>2019-St.Johns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-St.Johns-Commercial-Fuel-Natural Gas-<br>3789740 EIA<br>2019-St.Johns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-St.Johns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-St.Johns-Commercial-Fuel-LPG-Census-<br>3789764 Oil-Census-EIA  | Emissions from Agricultural<br>Activities (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1V.2Scope 1V.2Scope 1V.1Scope 1V.1Gpc ScopeGPC R<br>NumberScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                      | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLUAFOLUAFOLUAFOLUAFOLUAFOLUCategoryCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySourc<br>Activit                                 | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)<br/>2017 USDA Agricultura<br/>e Census</li> <li>2017 USDA Agricultura<br/>e Census (AR5 GWP = 100000000000000000000000000000000000</li></ul>  | rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:48<br>2024<br>rvolenec@hanson-inc.com 07:34<br>228) rvolenec@hanson-inc.com 07:34<br>228) rvolenec@hanson-inc.com 07:34<br>cbarsanti@hanson-inc.com 07:37<br>ate cbarsanti@hanson-inc.com 07:37<br>ate cbarsanti@hanson-inc.com 07:37<br>ate cbarsanti@hanson-inc.com 07:37<br>ate cbarsanti@hanson-inc.com 02:04<br>i The States nty<br>iles", ate cbarsanti@hanson-inc.com 02:05<br>i the States nty<br>iles", ate cbarsanti@hanson-inc.com 02:04<br>i the States nty<br>iles", ate cbarsanti@hanson-inc.com 02:05<br>i the States nty iles", ate cbarsanti@hanson-inc.com 02:05<br>i the States nty iles", ate cbarsanti@hanson-inc.com 02:06<br>i the States nty i   | Iman 5<br>Iman 5<br>Iman 16<br>Iman 22<br>Iman  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>MT) CO2e (MT) Tags<br>90922 263745.411 2019 StJohns<br>90922 263745.411 Commercial Electricity<br>33152 28736.3102 2019 StJohns<br>33152 28736.3102 Commercial fuel<br>33152 28736.3102 Commercial fuel<br>33152 28736.3102 Commercial fuel  | 535         12222         A.1         A.2         A.2 <td< td=""><td>Emissions Emissions<br/>Factor Units<br/>8.7716E-06 MT/MMBtu<br/>4. 8.7716E-06 MT/MMBtu<br/>4. kg/MMBtu<br/>4. kg/MMBtu<br/>4. kg/MMBtu</td><td>N2O N2O C<br/>Emissions Factor Units R<br/>1.1961E-06 MT/MMBtu B<br/>kg/MMBtu<br/>kg/MMBtu<br/>kg/MMBtu</td><td>Community Energy Em<br/>Protocol Equivalent Fac<br/>Reference (MMBtu) (kg<br/>38E.2.1<br/>583539<br/>452025<br/>121869</td><td>D2         CH4         Emissions         Factor           inissions         Emissions         Factor         (kg/MMBt)           g/MMBtu)         (kg/MMBtu)         u)         u)           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725</td><td>Biogenic CO2<br/>Emissions Facto<br/>Factor Units<br/>0 kg/Mi<br/>0 kg/Mi</td></td<> | Emissions Emissions<br>Factor Units<br>8.7716E-06 MT/MMBtu<br>4. 8.7716E-06 MT/MMBtu<br>4. kg/MMBtu<br>4. kg/MMBtu<br>4. kg/MMBtu  | N2O N2O C<br>Emissions Factor Units R<br>1.1961E-06 MT/MMBtu B<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu  | Community Energy Em<br>Protocol Equivalent Fac<br>Reference (MMBtu) (kg<br>38E.2.1<br>583539<br>452025<br>121869   | D2         CH4         Emissions         Factor           inissions         Emissions         Factor         (kg/MMBt)           g/MMBtu)         (kg/MMBtu)         u)         u)           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725  | Biogenic CO2<br>Emissions Facto<br>Factor Units<br>0 kg/Mi<br>0 kg/Mi            |
| 246309<br>246304<br>247796<br>248458<br>246916<br>246916<br>246940<br>247116   | 2019-St Johns-County-AFOLU-Forest to<br>3774485 Forests<br>2019-St Johns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-St Johns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>Dutput Record<br>ds With Co2e Inventory Record<br>3786716 2019-St Johns-Commercial-Elec-Census-EIA<br>2019-St Johns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-St Johns-Commercial-Fuel-Natural Gas-<br>3789740 EIA<br>2019-St Johns-Commercial-Fuel-Distillate Fuel<br>3789764 Oil-Census-EIA<br>2019-St Johns-Commercial-Fuel-Distillate Fuel<br>3789764 Oil-Census-EIA  | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1V.2Scope 1V.2Scope 1V.1Scope 1V.1Gpc ScopeGPC R<br>NumberScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                      | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU   AFOLU   AFOLU   AFOLU   AFOLU   AFOLU   AFOLU   Category   Activit   Commercial   Commercial   Commercial   Commercial   Sourc   Activit  | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>e Census<br>2017 USDA Agricultura<br>e Census (AR5 GWP =<br>2017 USDA Agricultura<br>e Census (AR5 GWP =<br>2017 USDA Agricultura<br>e Census (AR5 GWP =<br>2017 USDA Agricultura<br>e Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab   | rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:48<br>2024<br>rvolenec@hanson-inc.com 07:34<br>created By Created<br>states<br>rhy<br>ed<br>the<br>States<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>states<br>rhy<br>ed<br>the<br>s | Iman 5<br>Iman 5<br>Iman 16<br>Iman 22<br>Iman  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>(MT) CO2e (MT) Tags<br>190922 263745.411 2019 StJohns<br>190922 263745.411 Commercial Electricity<br>193539 31036.397 2019 StJohns<br>33152 28736.3102 2019 StJohns<br>33152 28736.3102 2019 StJohns<br>1909 2019 2019 StJohns<br>1909 2019 2019 2019 2019 2019 2019 2019 | 535           12222           A.1           A.2           A.2           A.2           A.2           A.2           A.2           A.2  | Emissions Emissions<br>Factor Units<br>8.7716E-06 MT/MMBtu<br>4. 8.7716E-06 MT/MMBtu<br>4. kg/MMBtu<br>4. kg/MMBtu<br>4. kg/MMBtu  | N2O N2O C<br>Emissions Factor Units P<br>Actor Uni | Sec.2.1<br>BE.2.1<br>Equivalent<br>Reference (MMBtu)<br>SE.2.1<br>583539<br>452025<br>121869   | D2         CH4         Emissions         Factor<br>(kg/MMBtu)           pixsions         Factor         Kg/MMBtu)         Factor           pixsions         Factor         Kg/MMBtu)         U           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725           75.2         0.0111111         0.000741  | Biogenic CO2<br>Emissions Facto<br>Factor Units<br>0 kg/Mi<br>0 kg/Mi            |
| 246309<br>246304<br>247796<br>248458<br>246916<br>246916<br>246940<br>247116   | 2019-St Johns-County-AFOLU-Forest to<br>3774485 Forests<br>2019-St Johns-County-AFOLU-Enteric<br>3799895 Fermentation<br>x2019-St Johns-County-AFOLU-Enteric<br>3811265 Fermentation<br>Commercial<br>Dutput Record<br>ds With Co2e Inventory Record<br>3786716 2019-St Johns-Commercial-Elec-Census-EIA<br>2019-St Johns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-St Johns-Commercial-Fuel-Natural Gas-<br>3789740 EIA<br>2019-St Johns-Commercial-Fuel-Distillate Fuel<br>3789764 Oil-Census-EIA<br>2019-St Johns-Commercial-Fuel-Distillate Fuel<br>3789764 Oil-Census-EIA  | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1V.2Scope 1V.2Scope 1V.1Scope 1V.1Gpc ScopeGPC R<br>NumberScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                      | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values  | AFOLU   AFOLU   AFOLU   AFOLU   AFOLU   AFOLU   AFOLU   Category   Activit   Commercial   Commercial   Commercial   Commercial   Sourc   Activit  | <ul> <li>(Gainesville reference)<br/>LEARN Report 2016-2<br/>(Gainesville reference)<br/>2017 USDA Agricultura<br/>e Census<br/>2017 USDA Agricultura<br/>e Census (AR5 GWP = 100000000000000000000000000000000000</li></ul>   | rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 10:21<br>2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>2024<br>2024<br>2024<br>2024<br>2024<br>2024<br>20  | Iman 5<br>Iman 5<br>Iman 16<br>Iman 22<br>Iman  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns<br>0 15468.04 2019 AFOLU StJohns<br>0 433104<br>(MT) CO2e (MT) Tags<br>190922 263745.411 2019 StJohns<br>190922 263745.411 Commercial Electricity<br>193539 31036.397 2019 StJohns<br>33152 28736.3102 2019 StJohns<br>33152 28736.3102 2019 StJohns<br>1909 2019 2019 StJohns<br>1909 2019 2019 2019 2019 2019 2019 2019 | 535           12222           A.1           A.2           A.2           A.2           A.2           A.2           A.2           A.2  | Emissions Emissions<br>Factor Units<br>8.7716E-06 MT/MMBtu<br>4. 8.7716E-06 MT/MMBtu<br>4. kg/MMBtu<br>4. kg/MMBtu<br>4. kg/MMBtu  | N2O N2O C<br>Emissions Factor Units P<br>Actor Uni | Sec.2.1<br>BE.2.1<br>Equivalent<br>Reference (MMBtu)<br>SE.2.1<br>583539<br>452025<br>121869   | D2         CH4         Emissions         Factor<br>(kg/MMBtu)           pixsions         Factor         Kg/MMBtu)         Factor           pixsions         Factor         Kg/MMBtu)         U           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725           75.2         0.0111111         0.000741  | Biogenic CO2<br>Emissions Facto<br>Factor Units<br>0 kg/Mi<br>0 kg/Mi            |
| <ul> <li>246309</li> <li>246304</li> <li>247796</li> <li>248458</li> <li>248458</li> <li>246916</li> <li>246940</li> <li>247116</li> <li>247117</li> <li>247118</li> </ul> | 2019-StJohns-County-AFOLU-Forest to<br>3774903 Wetland<br>2019-StJohns-County-AFOLU-Cutside of<br>3799895 Ferreentation<br>2019-StJohns-County-AFOLU-Enteric<br>3799895 Ferreentation<br>2019-StJohns-County-AFOLU-Enteric<br>37886716 2019-StJohns-Commercial-Elec-Census-EIA<br>3786716 2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fuel<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789768 Census-EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fuel<br>3789768 Census-EIA<br>2019-StJohns-Commercial-Fuel-Metrosene-<br>3789788 Census-EIA   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required) | Scope 1 V.2<br>Scope 1 V.1<br>Scope 1 V.1<br>Gpc Scope GPC R<br>Number<br>Scope 2 I.2.2<br>Scope 1 I.2.1<br>Scope 1 I.2.1 | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>t<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values | AFOLUAFOLUAFOLUAFOLUAFOLUAFOLUCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySourc<br>Activit | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>e Census<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1<br>2017 USDA Agricultura<br>e Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA   | rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 2024<br>rvolenec@hanson-inc.com 2024<br>rvolenec@hanson-inc.com 2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>cbarsanti@hanson-inc.com 07:34<br>cbarsanti@hanson-inc.com 08:37<br>ded cbarsanti@hanson-inc.com 08:37<br>ded cbarsanti@hanson-inc.com 02:04<br>cbarsanti@hanson-inc.com 02:04<br>cbarsanti@hanson-  | Iman 5<br>iman 5<br>iman 16<br>1an 16<br>1an 122<br>1an 22<br>1an 122<br>1an 10<br>1an 10<br>1an 10<br>1an 10<br>1an 10<br>1an 10<br>1an 11<br>1an 1an 1an 1an 1an 1an 1an 1an 1an 1an   | 2019 AFOLU StJohns         2019 AFOLU StJohns         0       15468.04       2019 AFOLU StJohns         0       433104         MT)       CO2e (MT)       Tags         199922       263745.411       2019 StJohns         183539       31036.397       2019 StJohns         183539       31036.397       2019 StJohns         131087       9073.92419       2019 StJohns         131087       5.45093333       2019 StJohns         131087       5.45093333       2019 StJohns         131087       18135.7053       2019 StJohns         150808       18135.7053       2019 StJohns         150808       18135.7053       2019 StJohns  | 1222         A.1   | <ul> <li>Emissions Factor Units</li> <li>8.7716E-06 MT/MMBtu</li> <li>8.7716E-06 MT/MMBtu</li> <li>kg/MMBtu</li> <li>kg/MMBtu</li> <li>kg/MMBtu</li> <li>kg/MMBtu</li> </ul> | N2O<br>Emissions<br>Factor Units<br>1.1961E-06<br>MT/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu  | Second Energy Emergy Emergy Emergy Energy Energy Energy Energy Emergy Energy En | D2       CH4       Emissions       Factor         nissions       Factor       (kg/MMBt)       u)         53.02       0.005       0.0001         62.98       0.0108696       0.001087         73.96       0.0108696       0.000725         75.2       0.0111111       0.000741         70.22       0.0112       0.0008  | Biogenic<br>CO2<br>Emissions<br>Factor<br>Units<br>O kg/Mi<br>O kg/Mi<br>O kg/Mi |
| 246309<br>246304<br>247796<br>248458<br>246916<br>246916<br>246940<br>247116   | 2019-StJohns-County-AFOLU-Forest to<br>3774405 Forests<br>2019-StJohns-County-AFOLU-Enteric<br>3799995 Fermentation<br>2019-StJohns-County-AFOLU-Enteric<br>37996716 2019-StJohns-County-AFOLU-Enteric<br>37986716 2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Elec-Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3787115 Census-EIA<br>2019-StJohns-Commercial-Fuel-Natural Gas-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fuel<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fuel<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fuel<br>3789740 CI-Census-EIA<br>2019-StJohns-Commercial-Fuel-LPG-Census-<br>3789740 EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-<br>3789788 Census-EIA | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from<br>Trees Outside of Forests (USCP<br>Recommended)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Emissions from Agricultural<br>Activities (USCP optional)<br>Calculator<br>Emissions from Grid Electricity<br>(USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)   | Scope 1V.2Scope 1V.2Scope 1V.1Scope 1V.1Gpc ScopeGPC R<br>NumberScope 2I.2.2Scope 1I.2.1Scope 1I.2.1                      | Florida Power and Ligh<br>2019 (FPL and  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>Global Warming Potential<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values      | AFOLUAFOLUAFOLUAFOLUAFOLUAFOLUCategoryActivitCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergyCommercial<br>EnergySourc<br>Activit | (Gainesville reference)<br>LEARN Report 2016-2<br>(Gainesville reference)<br>2017 USDA Agricultura<br>e Census<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1<br>2017 USDA Agricultura<br>e Census (AR5 GWP = 1<br>2017 USDA Agricultura<br>e Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "Cou<br>Business Patterns Tab<br>and the U.S. EIA's "Sta<br>e and Profile and Energy<br>y Estimates" for Florida.<br>The above data is pulk<br>from the United States<br>Census Bureau's "On<br>Map" tool, the United Stat   | rvolenec@hanson-inc.com 09:52<br>2024<br>rvolenec@hanson-inc.com 2024<br>rvolenec@hanson-inc.com 2024<br>rvolenec@hanson-inc.com 2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>rvolenec@hanson-inc.com 07:34<br>2024<br>cbarsanti@hanson-inc.com 07:34<br>cbarsanti@hanson-inc.com 08:37<br>ded cbarsanti@hanson-inc.com 08:37<br>ded cbarsanti@hanson-inc.com 02:04<br>cbarsanti@hanson-inc.com 02:04<br>cbarsanti@hanson-  | Iman 5<br>iman 5<br>iman 16<br>1an 16<br>1an 122<br>1an 22<br>1an 122<br>1an 10<br>1an 10<br>1an 10<br>1an 10<br>1an 10<br>1an 10<br>1an 11<br>1an 1an 1an 1an 1an 1an 1an 1an 1an 1an   | 2019 AFOLU StJohns         0       15468.04       2019 AFOLU StJohns         0       433104         MT)       CO2e (MT)       Tags         990922       263745.411       2019 StJohns         983539       31036.397       2019 StJohns         33152       28736.3102       2019 StJohns         33163       2019 StJohns       Commercial fuel         90973.92419       2019 StJohns         931667       5.45093333       2019 StJohns         93167       9073.92419       2019 StJohns         93168       8.18135.7053       2019 StJohns  | 535           12222           A.1           A.2           A.2           A.2           A.2           A.2           A.2           A.2  | <ul> <li>Emissions Factor Units</li> <li>8.7716E-06 MT/MMBtu</li> <li>8.7716E-06 MT/MMBtu</li> <li>kg/MMBtu</li> <li>kg/MMBtu</li> <li>kg/MMBtu</li> <li>kg/MMBtu</li> </ul> | N2O N2O C<br>Emissions Factor Units P<br>Actor Uni | Sec.2.1<br>BE.2.1<br>Equivalent<br>Reference (MMBtu)<br>SE.2.1<br>583539<br>452025<br>121869   | D2         CH4         Emissions         Factor<br>(kg/MMBtu)           pixsions         Factor         Kg/MMBtu)         Factor           pixsions         Factor         Kg/MMBtu)         U           53.02         0.005         0.0001           62.98         0.0108696         0.001087           73.96         0.0108696         0.000725           75.2         0.0111111         0.000741  | Biogenic<br>CO2<br>Emissions<br>Factor<br>Units<br>O kg/Mi<br>O kg/Mi<br>O kg/Mi |

|                            | Residential  |   |  |   |   |  |   |  |  |  |  |   |   |  |  |   |
|----------------------------|--|---|--|---|---|--|---|--|--|--|--|---|---|--|--|---|
|                            | Dutput Record<br>ds With Co2e Inventory Record   | Calculator  |  | PC Ref<br>umber Factor Profiles                               | Global Warming Potential  | Category   | Activity Source   | ce Notes   | Created By Created At  | CO2 (MT) CH4 (MT)  | N2O (MT) CO2e (MT) Tags  | CO2 CO2<br>Electricity Energy Emissions Emissic<br>Equivalent (MMBtu) Factor Factor | CH4 CH4 Na<br>ns Emissions Emissions Er<br>Jnits Factor Factor Units Fa | nissions Emissions Protoc                          | nunity Energy CC<br>col Equivalent Em  | ogenic Biogenic<br>D2 CO2<br>missions Emissions<br>actor Factor Units   |
|                            |  | Emissions from Grid Electricity   |  | Florida Power and Lig<br>2019 (FPL and                        | 5   | 0,   | -   | American Community Surve   | y 2024 Jan 4   |  | 2019 StJohns   | -1  |   |  |  |   |
| 246097                     | 3770885 2019-StJohns-County-Residential-Energy-FPI   | - (USCP Required)<br>Emissions from Stationary Fuel   |  | 1.2 eGRID2018 factors)  | Year Values<br>IPCC 5th Assessment 100  |  | Activity<br>Source and  | ACSST5Y2019<br>American Community Surve  |  | 7  | 71 6.07538551 451760.941 RESIDENTIAL FPL<br>2019 RESIDENTIAL   | 5079225.032 0.08838031 MT/MM  |   | .1961E-06 MT/MMBtu BE.2.                           |  |   |
| 247914<br>247915           | 3801961 2019-StJohns-County-Residential-Fuel-NGas 3801985 2019-StJohns-County-Residential-Fuel-FuelO   | Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.<br>Scope 1 I.               |   | Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Residential<br>Energy  | Activity<br>Source and<br>Activity  | ACSST5Y2019<br>American Community Surve<br>ACSST5Y2019   | rvolenec@hanson-inc.com 09:02pm<br>y 2024 Jan 1<br>rvolenec@hanson-inc.com 09:02pm   | 7  | 75 0.01990016 10584.1959 StJohns fuel<br>2019 RESIDENTIAL<br>91 0.00084826 87.1586347 StJohns fuel   | 53.02 kg/MMI<br>73.96 kg/MMI  |   | 0.0001 kg/MMBtu BE.1.2<br>00072464 kg/MMBtu BE.1.2 |  | 0 kg/MMBtu<br>0 kg/MMBtu  |
| 247916                     | 3802009 2019-StJohns-County-Residential-Fuel-LPG   | Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.                             |   | IPCC 5th Assessment 100<br>Year Values  |  | Source and<br>Activity  | American Community Surve<br>ACSST5Y2019  |  | 7  | 2019 RESIDENTIAL<br>67 0.08016047 4688.31319 StJohns fuel  | 62.98 kg/MM   |   | 00108696 kg/MMBtu BE.1.2                           |  | 0 kg/MMBtu  |
| 247917                     | 3802033 2019-StJohns-County-Residential-Fuel-Wood  | Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.                             | 1.1   | IPCC 5th Assessment 100<br>Year Values  | Residential<br>Energy  | Source and<br>Activity  | American Community Surve<br>ACSST5Y2019  | y 2024 Jan 1<br>rvolenec@hanson-inc.com 09:05pm  |  | 2019 RESIDENTIAL<br>64 0.01474952 34.9809402 StJohns fuel  | 0 kg/MM   |   | 0.0042 kg/MMBtu BE.1.2                             | 2 3511.79                              | 93.8 kg/MMBtu   |
|                            | Transportation   |   |  |   |   |  |   |  |  |  |  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   |  |  |  |  | Fossil Fuel   |   | ogenic Biogenic                                    |  | US  |
|                            | Dutput Record<br>ds With Co2e Inventory Record   | Calculator  |  | PC Ref<br>umber Factor Profiles                               | Global Warming Potential  | Category   | Activity Source   | ce Notes   | Created By Created At  | CO2 (MT) CH4 (MT)  | N2O (MT) CO2e (MT) Tags  | Energy Biofuel<br>Equivalent Energy<br>On Road VMT (MMBtu) (MMBtu                   | CO2 CO2 CO<br>Emissions Emissions Er<br>) Factor Factor Units Fa        | nissions Emissions Emiss                           |  | missions Emissions y Protocol Equi  |
|                            |  |   |  | Florida Power and Lig   | ht  |  |   | The above data is pulled from Google's Environment   | al   |  |  |   |   |  |  |   |
|                            |  |   |  | 2019 (FPL and eGRID2018 factors) a                            |   |  |   | Insights platform for St.<br>Johns County and calculate  |  |  |  |   |   |  |  |   |
| 246040                     | 2760924 2040 St. Johns Transportation Caseling CEI   | On Road Transportation (USCP  | Secre 1                                | 2019 US National<br>Defaults (updated                         | IPCC 5th Assessment 100   |  | Source and  | through ClearPath's<br>guidance documentation an   | d 2024 Jan 3<br>mcoalson@hanson-inc.com 10:09pm  | 4000007 0 59 60000   | 2019 Gasoline  | 2006525627 47524722 2   |   |  |  |   |
| 246040                     | 3769834 2019-St_Johns-Transportation-Gasoline-GEI  | Required)   | Scope 1 II                             | .1.1 2020)  | Year Values   | Sources  | Activity  | spreadsheet.<br>The above data is pulled   | nicoalson@nansorFine.com 10.09pm   | 1230937.2 38.60692   | 58 31.893224 1241029.89 transportation StJohr  | s 3006525637 17524732.3   | 0 0.07024 MT/MMBtu  | .0004130 W17WIVIDlu 1.94                           |  | .00TE-00 MIT/IIIIE TR.I.A   |
|                            |  |   |  | Florida Power and Lig<br>2019 (FPL and                        |   |  |   | from Google's Environment<br>Insights platform for St.   |  |  |  |   |   |  |  |   |
|                            |  | On Road Transportation (USCP  |  | eGRID2018 factors) a<br>2019 US National<br>Defaults (updated | IPCC 5th Assessment 100   | Transportati<br>n & Mobile   | io<br>Source and  | Johns County and calculate<br>through ClearPath's<br>guidance documentation an   |  |  | 2019 StJohns Diesel  |   |   |  |  |   |
| 246141                     | 3771758 2019-St_Johns-Transportation-Diesel-GEI  | Required)   |  | .1.1 2020)  | Year Values   | Sources  | Activity  | spreadsheet.   | mcoalson@hanson-inc.com 11:06pm  | 458095.568 1.432387  |  | 311379882.5 6195966.36  | 0 0.07393448 MT/MMBtu 0   | 07377323 MT/MMBtu 4.                               | 6E-09 MT/mile 4                        | 4.394E-09 MT/mile TR.2.C  |
|                            |  |   |  |   |   |  |   | Where available<br>Sustainability or ESG   |  |  |  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   | reports were used to<br>determine Total GHG<br>Emissions in units of Metric  |  |  |  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   | Tons of CO2e. Sustainabilit<br>or ESG reports were   |  |  |  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   | available for the following<br>Railroad Companies and ar   | е  |  |  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   | attached: CSX, Union<br>Pacific, Norfolk Southern.<br>Where Sustainability or ES0  | 3  |  |  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   | reports were not available the AVG emissions per mile  | •  |  |  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   | of track and AVG gallons o<br>diesel per mile of track in  |  |  |  |   |   |  |  |   |
|                            |  |   |  | Florida Power and Lig   | ht  | Transportat  | io  | the given County was used<br>to calculate the total annual<br>gallons Diesel and annual  |  |  |  |   |   |  |  |   |
| 247846                     | 3800669 2019-StJohns-Rail-Diesel-FDOT  | Rail Transportation (USCP<br>Recommended)   | Scope 1 II                             | 2019 (FPL and<br>.2.1 eGRID2018 factors)                      | IPCC 5th Assessment 100<br>Year Values  |  | Source and<br>Activity  | GHG emissions. All data is based off the 2019 year.  | 2024 Jan 1<br>mcoalson@hanson-inc.com 05:45pm  | 7<br>4601  | 2019,StJohns,Rail,Di<br>4601 el  | es  | 0 MT/MMBtu  |  | 0 MT/MMBtu                             | 0 MT/MMBtu 881  |
|                            | AFOLU  |   |  |   |   |  |   |  |  |  |  | Canopy  |   |  |  |   |
|                            |  |   |  |   |   |  |   |  |  |  |  | Area of<br>Trees US<br>Outside Commu  | nity  |  |  |   |
|                            | Dutput Record<br>ds With Co2e Inventory Record   | Calculator  |  | PC Ref<br>umber Factor Profiles                               | Global Warming Potential  | Category   | Activity Source   |  | Created By Created At  | CO2 (MT) CH4 (MT)  | N2O (MT) CO2e (MT) Tags  | Land Area (hectares Forest Protoco<br>/ year) (hectares) Referen                    | 1   |  |  |   |
| 246302                     | 2019-StJohns-County-AFOLU-Undisturbed<br>3774475 Forest<br>2019-StJohns-County-AFOLU-Forest to   | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from  | Scope 1 V                              | .2  | IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100   | AFOLU  |   | LEARN Report 2016-2019<br>(Gainesville reference)<br>LEARN Report 2016-2019  | rvolenec@hanson-inc.com 09:46pm  |  | 2019 AFOLU StJohn  | 91245   |   |  |  |   |
| 246303                     | 3774479 Grassland<br>2019-StJohns-County-AFOLU-Non-Forest to   | Forests (USCP Recommended)<br>Emissions and Removals from   | Scope 1 V                              | .2  | Year Values<br>IPCC 5th Assessment 100  | AFOLU  |   | (Gainesville reference)<br>LEARN Report 2016-2019  | rvolenec@hanson-inc.com 09:46pm  |  | 2019 AFOLU StJohns   | 2163  |   |  |  |   |
| 246305                     | 3774487 Forest<br>2019-StJohns-County-AFOLU-Forest to  | Forests (USCP Recommended)<br>Emissions and Removals from   |  |   | Year Values<br>IPCC 5th Assessment 100  |  |   | (Gainesville reference)<br>LEARN Report 2016-2019  | rvolenec@hanson-inc.com 09:49pm<br>2024 Jan 5  |  | 2019 AFOLU StJohn  |   |   |  |  |   |
| 246306<br>246307           | 3774491 Settlement<br>2019-StJohns-County-AFOLU-Forest to Othe<br>3774495 Non-Forest   | Forests (USCP Recommended)<br>Emissions and Removals from<br>Forests (USCP Recommended)   | ·                                      |   | Year Values<br>IPCC 5th Assessment 100<br>Year Values   | AFOLU<br>AFOLU   |   | (Gainesville reference)<br>LEARN Report 2016-2019<br>(Gainesville reference)   | rvolenec@hanson-inc.com 09:50pm<br>2024 Jan 5<br>rvolenec@hanson-inc.com 09:51pm   |  | 2019 AFOLU StJohns<br>2019 AFOLU StJohns   |   |   |  |  |   |
| 246308                     | 2019-StJohns-County-AFOLU-Forest to<br>3774499 Cropland  | Emissions and Removals from Forests (USCP Recommended)  | ·                                      |   | IPCC 5th Assessment 100<br>Year Values  | AFOLU  |   | LEARN Report 2016-2019<br>(Gainesville reference)  | 2024 Jan 5<br>rvolenec@hanson-inc.com 09:52pm  |  | 2019 AFOLU StJohn  |   |   |  |  |   |
| 246309                     | 2019-StJohns-County-AFOLU-Forest to 3774503 Wetland  | Emissions and Removals from<br>Forests (USCP Recommended)<br>Emissions and Removals from  | Scope 1 V                              | .2  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  |   | LEARN Report 2016-2019<br>(Gainesville reference)  | 2024 Jan 5<br>rvolenec@hanson-inc.com 09:52pm  |  | 2019 AFOLU StJohn  | 535   |   |  |  |   |
| 246304                     | 2019-StJohns-County-AFOLU-Outside of 3774485 Forests   | Trees Outside of Forests (USCF<br>Recommended)  | Scope 1 V                              | .2  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  |   | LEARN Report 2016-2019<br>(Gainesville reference)  | 2024 Jan 5<br>rvolenec@hanson-inc.com 09:48pm  |  | 2019 AFOLU StJohn  | 12222   |   |  |  |   |
| 247796                     | 2019-StJohns-County-AFOLU-Enteric<br>3799895 Fermentation  | Emissions from Agricultural<br>Activities (USCP optional)   | Scope 1 V                              | .1  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  | Source  | 2017 USDA Agricultural<br>Census   | 2024 Jan 1<br>rvolenec@hanson-inc.com 10:21pm  | 0 552.4  |  |   |   |  |  |   |
| 248458                     | x2019-StJohns-County-AFOLU-Enteric 3811265 Fermentation  | Emissions from Agricultural<br>Activities (USCP optional)   | Scope 1 V                              | .1  | IPCC 5th Assessment 100<br>Year Values  | AFOLU  | Source  | 2017 USDA Agricultural<br>Census (AR5 GWP = 28)  | 2024 Jan 2<br>rvolenec@hanson-inc.com 07:34am  | 0 154  | 68 0 433104  | A.1   |   |  |  |   |
|                            | Commercial   |   |  |   |   |  |   |  |  |  |  |   |   | US   | C(                                     | N2O<br>D2 CH4 Emissions Biog  |
| O                          | Dutput Record<br>ds With Co2e Inventory Record   | Calculator  |  | PC Ref<br>umber Factor Profiles                               | Global Warming Potential  | Category   | Activity Source   | no. Notos  | Created By Created At  |  | N2O (MT) CO2e (MT) Tags  | CO2 CO2<br>Electricity Energy Emissions Emissio<br>Equivalent (MMBtu) Factor Factor | CH4 CH4 Na<br>ns Emissions Emissions Er<br>Jnits Factor Factor Units Fa | O N2O Comm<br>nissions Emissions Protoc            | nunity Energy Em<br>col Equivalent Fac | nissions Emissions Factor CO2<br>actor Factor (kg/MMBt Emis<br>g/MMBtu) (kg/MMBtu) u) Fact                              |
|                            |  | Calculator  |  |   | Global Warning Fotential  | Category   | Activity Source   | The above data is pulled from the United States  |  |  | NZO (MT) COZE (MT) Tags  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   | Census Bureau's "On The<br>Map" tool, the United State   | 5  |  |  |   |   |  |  |   |
|                            |  |   |  | Florida Power and Lig   | ht  |  |   | Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   |  |  |  |   |   |  |  |   |
| 246916                     | 3786716 2019-StJohns-Commercial-Elec-Census-EIA  | Emissions from Grid Electricity (USCP Required)   | Scope 2 I.                             | 2019 (FPL and<br>2.2 eGRID2018 factors)                       | IPCC 5th Assessment 100<br>Year Values  | Commercial<br>Energy   | l<br>Activity   | Profile and Energy<br>Estimates" for Florida.  | 2024 Jan 1<br>cbarsanti@hanson-inc.com 07:37pm   |  | 2019 StJohns<br>76 3.54690922 263745.411 Commercial Electricit   | / 2965334.471 0.08838031 MT/MN  | Btu 8.7716E-06 MT/MMBtu 1   | .1961E-06 MT/MMBtu BE.2. <sup>2</sup>              | 1                                      |   |
|                            |  |   |  |   |   |  |   | The above data is pulled<br>from the United States<br>Census Bureau's "On The  |  |  |  |   |   |  |  |   |
|                            |  |   |  |   |   |  |   | Map" tool, the United State<br>Census Bureau's "County   | S  |  |  |   |   |  |  |   |
|                            | 2019-StJohns-Commercial-Fuel-Natural Gas-  | Emissions from Stationary Fuel  |  |   | IPCC 5th Assessment 100   | Commorpial   | I Source and  | Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy  | 2024 Jan 1   | 2  | 2019 StJohns   |   |   |  |  |   |
| 246940                     | 3787115 Census-EIA   | Emissions from Stationary Fuer  |  |   | Year Values   | Energy   | Activity  | Estimates" for Florida.<br>The above data is pulled  | cbarsanti@hanson-inc.com 08:37pm   |  | 95 0.0583539 31036.397 Commercial fuel   | L /h 4h 4l  | Btu kg/MMBtu  | kg/MMBtu   | 500500                                 | 53.02 0.005 0.0001  |
|                            |  | Combustion (USCP Required)  | Scope 1 I.                             | 2.1   |   |  |   |  |  |  |  | kg/MMI  |   | 5  | 583539                                 |   |
|                            |  | Combustion (USCP Required)  | Scope 1 I.                             | 2.1   |   |  |   | from the United States<br>Census Bureau's "On The  | _  |  |  | Kg/MMI  |   | J  | 583539                                 |   |
|                            |  | Combustion (USCP Required)  | Scope 1 I.                             | 2.1   |   |  |   | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County  | 5  |  |  | Kg/MMI  |   | J  | 583539                                 |   |
|                            | 2019-StJohns-Commercial-Fuel-LPG-Census  | - Emissions from Stationary Fuel  |  |   | IPCC 5th Assessment 100   |  | I Source and  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy   | 2024 Jan 1   |  | 2019 StJohns   |   |   |  |  |   |
| 247116                     |  |   | Scope 1 I.<br>Scope 1 I.               |   | IPCC 5th Assessment 100<br>Year Values  | Commercial<br>Energy   | I Source and<br>Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled  |  |  | 2019 StJohns<br>22 0.49133152 28736.3102 Commercial fuel   | kg/MMI  |   | kg/MMBtu   | 452025                                 | 62.98 0.0108696 0.001087  |
| 247116                     |  | - Emissions from Stationary Fuel  |  |   |   |  |   | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State  | 2024 Jan 1<br>cbarsanti@hanson-inc.com 02:04pm   |  |  |   |   |  |  | 62.98 0.0108696 0.001087  |
| 247116                     |  | - Emissions from Stationary Fuel  |  |   |   |  |   | <ul> <li>Census Bureau's "On The<br/>Map" tool, the United State<br/>Census Bureau's "County<br/>Business Patterns Tables",<br/>and the U.S. EIA's "State<br/>Profile and Energy<br/>Estimates" for Florida.</li> <li>The above data is pulled<br/>from the United States<br/>Census Bureau's "On The<br/>Map" tool, the United State<br/>Census Bureau's "County<br/>Business Patterns Tables",</li> </ul>  | 2024 Jan 1<br>cbarsanti@hanson-inc.com 02:04pm   |  |  |   |   |  |  | 62.98 0.0108696 0.001087  |
|                            | 3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fue   | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1 I.                             | 2.1   | Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercial   | Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy  | 2024 Jan 1<br>cbarsanti@hanson-inc.com 02:04pm<br>s  | 28468.5345 4.913315<br>1   | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns   | kg/MMI  | 3tu kg/MMBtu  | kg/MMBtu   | 452025                                 |   |
| 247116<br>247117           | 3789740 EIA  | Emissions from Stationary Fuel<br>Combustion (USCP Required)  |  | 2.1   | Year Values   | Energy   | Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States   | 2024 Jan 1<br>cbarsanti@hanson-inc.com 02:04pm   | 28468.5345 4.913315<br>1   | 22 0.49133152 28736.3102 Commercial fuel   |   | 3tu kg/MMBtu  |  |  | 62.98 0.0108696 0.001087<br>73.96 0.0108696 0.000725  |
|                            | 3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fue   | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1 I.                             | 2.1   | Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercial   | Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | 2024 Jan 1<br>cbarsanti@hanson-inc.com 02:04pm<br>s<br>2024 Jan 1<br>cbarsanti@hanson-inc.com 02:05pm  | 28468.5345 4.913315<br>1   | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns   | kg/MMI  | 3tu kg/MMBtu  | kg/MMBtu   | 452025                                 |   |
|                            | 3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA   | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1 I.                             | 2.1   | Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy   | Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | cbarsanti@hanson-inc.com 2024 Jan 1<br>02:04pm<br>s<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>02:05pm  | 28468.5345 4.913315<br>1<br>9013.43124 1.324663  | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>04 0.08831087 9073.92419 Commercial fuel   | kg/MMI  | 3tu kg/MMBtu  | kg/MMBtu   | 452025                                 |   |
|                            | 3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fue   | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel  | Scope 1 I.                             | 2.1   | Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercial<br>Energy   | Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.  | 2024 Jan 1<br>cbarsanti@hanson-inc.com 02:04pm<br>s<br>2024 Jan 1<br>cbarsanti@hanson-inc.com 02:05pm  | 28468.5345 4.913315<br>1<br>9013.43124 1.324663<br>1                                       | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns   | kg/MMI  | Btu kg/MMBtu<br>Btu kg/MMBtu  | kg/MMBtu   | 452025                                 |   |
| 247117                     | 2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-  | <ul> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel</li> </ul>  | Scope 1 I.<br>Scope 1 I.               | 2.1   | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercial<br>Energy<br>Commercial                                   | Activity I Source and Activity I Source and   | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States  | 2024 Jan 1<br>02:04pm<br>s<br>cbarsanti@hanson-inc.com<br>2024 Jan 1<br>02:05pm<br>s   | 28468.5345 4.913315<br>1<br>9013.43124 1.324663<br>1                                       | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>04 0.08831087 9073.92419 Commercial fuel<br>2019 StJohns   | kg/MMI<br>kg/MMI  | Btu kg/MMBtu<br>Btu kg/MMBtu  | kg/MMBtu<br>kg/MMBtu                               | 452025<br>121869                       | 73.96 0.0108696 0.000725  |
| 247117                     | 2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-  | <ul> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel</li> </ul>  | Scope 1 I.<br>Scope 1 I.               | 2.1   | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercial<br>Energy<br>Commercial                                   | Activity I Source and Activity I Source and   | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State  | cbarsanti@hanson-inc.com 2024 Jan 1<br>02:04pm<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>02:05pm<br>s<br>cbarsanti@hanson-inc.com 2024 Jan 1   | 28468.5345 4.913315<br>1<br>9013.43124 1.324663<br>1                                       | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>04 0.08831087 9073.92419 Commercial fuel<br>2019 StJohns   | kg/MMI<br>kg/MMI  | Btu kg/MMBtu<br>Btu kg/MMBtu  | kg/MMBtu<br>kg/MMBtu                               | 452025<br>121869                       | 73.96 0.0108696 0.000725  |
| 247117                     | 2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-<br>3789788 Census-EIA  | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.<br>Scope 1 I.               | 2.1   | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity<br>Source and<br>Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State   | cbarsanti@hanson-inc.com 2024 Jan 1<br>02:04pm<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>02:05pm<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>02:06pm   | 28468.5345 4.913315<br>1 9013.43124 1.324663<br>1 5.4144 0.00                              | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns   | kg/MMI<br>kg/MMI  | Btu kg/MMBtu<br>Btu kg/MMBtu  | kg/MMBtu<br>kg/MMBtu                               | 452025<br>121869                       | 73.96 0.0108696 0.000725  |
| 247117                     | 2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-  | <ul> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel</li> </ul>  | Scope 1 I.<br>Scope 1 I.               | 2.1<br>2.1  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100  | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity I Source and Activity I Source and   | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled  | cbarsanti@hanson-inc.com 2024 Jan 1<br>02:04pm<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>02:05pm<br>s<br>cbarsanti@hanson-inc.com 2024 Jan 1   | 28468.5345 4.913315<br>1 9013.43124 1.324663<br>1 5.4144 0.00                              | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>04 0.08831087 9073.92419 Commercial fuel<br>2019 StJohns   | kg/MMI<br>kg/MMI  | Stukg/MMBtuStukg/MMBtu  | kg/MMBtu<br>kg/MMBtu                               | 452025<br>121869                       | 73.96 0.0108696 0.000725  |
| 247117<br>247118           | 2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-<br>3789788 Census-EIA<br>2019-StJohns-Commercial-Fuel-Gasoline-                                      | <ul> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel</li> </ul>   | Scope 1 I.<br>Scope 1 I.               | 2.1<br>2.1  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity I Source and Activity I Source and Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The  | cbarsanti@hanson-inc.com 2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>02:05pm<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1  | 28468.5345 4.913315<br>1 9013.43124 1.324663<br>1 5.4144 0.00                              | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>04 0.08831087 9073.92419 Commercial fuel<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns   | kg/MMI<br>kg/MMI  | Stukg/MMBtuStukg/MMBtu  | kg/MMBtu<br>kg/MMBtu                               | 452025<br>121869<br>72                 | 73.960.01086960.00072575.20.01111110.000741   |
| 247117<br>247118           | 2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-<br>3789788 Census-EIA<br>2019-StJohns-Commercial-Fuel-Gasoline-                                      | <ul> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> <li>Emissions from Stationary Fuel</li> </ul>   | Scope 1 I.<br>Scope 1 I.               | 2.1<br>2.1  | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values   | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy                         | Activity I Source and Activity I Source and Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States   | cbarsanti@hanson-inc.com 2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>02:05pm<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1  | 28468.5345 4.913315<br>1 9013.43124 1.324663<br>1 5.4144 0.00                              | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>04 0.08831087 9073.92419 Commercial fuel<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns   | kg/MMI<br>kg/MMI  | Stukg/MMBtuStukg/MMBtu  | kg/MMBtu<br>kg/MMBtu                               | 452025<br>121869<br>72                 | 73.960.01086960.00072575.20.01111110.000741   |
| 247117<br>247118<br>247119 | 3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-<br>3789788 Census-EIA<br>2019-StJohns-Commercial-Fuel-Gasoline-<br>3789812 Census-EIA | <ul> <li>Emissions from Stationary Fuel<br/>Combustion (USCP Required)</li> </ul> | Scope 1 I.<br>Scope 1 I.<br>Scope 1 I. | 2.1<br>2.1<br>2.1   | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy | Activity <ul> <li>Source and Activity</li> <li>Source and Activity</li> </ul> Source and Activity Source and Activity | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy | cbarsanti@hanson-inc.com 2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2023 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1<br>2024 Jan 1  | 28468.5345 4.913315<br>1 9013.43124 1.324663<br>1 5.4144 0.00<br>1 18000.9672 2.87113<br>1 | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>5.3333E-05 5.45093333 Commercial fuel<br>2019 StJohns<br>12 0.2050808 18135.7053 Commercial fuel<br>2019 StJohns | kg/MMI<br>kg/MMI<br>kg/MMI  | Btukg/MMBtuBtukg/MMBtuBtukg/MMBtu                                       | kg/MMBtu<br>kg/MMBtu<br>kg/MMBtu                   | 452025<br>121869<br>72<br>256351       | 73.96       0.0108696       0.000725         75.2       0.011111       0.000741         70.22       0.0112       0.0008 |
| 247117<br>247118           | 3789740 EIA<br>2019-StJohns-Commercial-Fuel-Distillate Fue<br>3789764 Oil-Census-EIA<br>2019-StJohns-Commercial-Fuel-Kerosene-<br>3789788 Census-EIA<br>2019-StJohns-Commercial-Fuel-Gasoline-<br>3789812 Census-EIA | Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)<br>Emissions from Stationary Fuel<br>Combustion (USCP Required)  | Scope 1 I.<br>Scope 1 I.               | 2.1<br>2.1<br>2.1   | Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values<br>IPCC 5th Assessment 100<br>Year Values | Energy<br>Commercial<br>Energy<br>Commercial<br>Energy<br>Commercial<br>Energy | Activity I Source and Activity I Source and Activity I Source and Activity  | Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "On The<br>Map" tool, the United State<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Profile and Energy<br>Estimates" for Florida.<br>The above data is pulled<br>from the United States<br>Census Bureau's "County<br>Business Patterns Tables",<br>and the U.S. EIA's "State<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States<br>Census Bureau's "On The<br>Map" tool, the United States  | cbarsanti@hanson-inc.com 2024 Jan 1<br>02:04pm 1<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>02:05pm 1<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>cbarsanti@hanson-inc.com 2024 Jan 1<br>s cbarsanti@hanson-inc.com 20206pm 1 | 28468.5345 4.913315<br>1 9013.43124 1.324663<br>1 5.4144 0.00<br>1 18000.9672 2.87113<br>1 | 22 0.49133152 28736.3102 Commercial fuel<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>2019 StJohns<br>5.3333E-05 5.45093333 Commercial fuel<br>2019 StJohns<br>12 0.2050808 18135.7053 Commercial fuel                 | kg/MMI<br>kg/MMI  | Btukg/MMBtuBtukg/MMBtuBtukg/MMBtu                                       | kg/MMBtu<br>kg/MMBtu                               | 452025<br>121869<br>72                 | 73.960.01086960.00072575.20.01111110.000741   |

# St. Johns County 2019 Detailed GHG Inventory

# 88179.33

# Biogenic Biogenic CO2 CO2 Emissions Et Emissions Factor Factor Units

0 kg/MMBtu

0 kg/MMBtu

0 kg/MMBtu

0 kg/MMBtu

0 kg/MMBtu

0 kg/MMBtu

| ld    | Output Record<br>Ids With Co2e Inventory Record                         | Calculator  | Gpc Scope | GPC Ref<br>Number | Factor Profiles                  | Global Warming Potential               | Category    | Activity Source Notes | Created By         | Created At CO2 (MT)    | CH4 (MT) N2O (MT) | CO2e (MT) Tags |
|-------|---|---|-----------|-------------------|----------------------------------|--|-------------|-----------------------|--------------------|------------------------|-------------------|----------------|
| 24733 | 2019 St. Johns County Solid Waste Landfill<br>7 3792633 Waste Generator | Landfilled Waste (USCP Required, Preferred, where applicable) | Scope 1   | III.1.1           | 2019 St. Johns MSW<br>Factor Set | IPCC 5th Assessment 100<br>Year Values | Solid Waste | Source                | avo@hanson-inc.com | 2024 Jan 15<br>04:58pm | 6686.59551        | 187224.674     |

# St. Johns County 2019 Detailed GHG Inventory

|          |                            |                       |                       |   | Corrugated             | Magazines/∖<br>hird Class | -                     |                       |                       |         | Dimensiona            | ıl           |                   |                        | Corrugate               | Magazine |                     |              |               |                  |                               |    |   |
|----------|----------------------------|-----------------------|-----------------------|---|------------------------|---------------------------|-----------------------|-----------------------|-----------------------|---------|-----------------------|--------------|-------------------|------------------------|-------------------------|----------|---------------------|--------------|---------------|------------------|-------------------------------|----|---|
|          |                            | Emissions             | Emissions             | Office Paper<br>Emissions<br>Factor (MT | Cardboard<br>Emissions | Mail<br>Emissions         |                       | Emissions             |                       |         | Lumber<br>Emissions   | Mixed<br>MSW | Newspap<br>er LFG | Office<br>Paper<br>LFG | d<br>Container<br>s LFG | s/Third  | Food                | Grass<br>LFG | Leaves<br>LFG | Branches<br>LFG  | Dimension<br>al Lumber<br>LFG |    |   |
| IT) Tags | Waste Generated (wet tons) | CH4/wet<br>short ton) | CH4/wet<br>short ton) | CH4/wet<br>short ton)                   | CH4/wet<br>short ton)  | CH4/wet<br>short ton)     | CH4/wet<br>short ton) | CH4/wet<br>short ton) | CH4/wet<br>short ton) |         | CH4/wet<br>short ton) | •            | •                 | •                      | Capture<br>Rate (%)     | •        | Capture<br>Rate (%) | •            | •             | •                | Capture<br>Rate (%)           |    |   |
| .674     | 45410                      | 9 0.0648              | 3 0.042               | 2 0.1556                                | 6 0.1048               | 3 0.0476                  | 6 0.0648              | 3 0.0228              | 3 0.026               | 6 0.058 | 3 0.0068              | 8 60         | 5 59              | 9 58                   | 8 54                    | 52       | 2 5                 | 0 39         | 9 47          | 7 5 <sup>2</sup> | 1 57                          | 0. | 1 |

| City/County                          | Primary Utility Provider |     |               |  |  |  |  |  |  |  |  |
|--------------------------------------|--------------------------|-----|---------------|--|--|--|--|--|--|--|--|
| City/Codify                          | JEA                      | FPL | Clay Electric |  |  |  |  |  |  |  |  |
| Baker County                         |                          | Х   |               |  |  |  |  |  |  |  |  |
| Clay County                          |                          |     | X             |  |  |  |  |  |  |  |  |
| Duval County                         | Х                        |     |               |  |  |  |  |  |  |  |  |
| Nassau County                        |                          | Х   |               |  |  |  |  |  |  |  |  |
| St. Johns County                     |                          | Х   |               |  |  |  |  |  |  |  |  |
| Flagler County (includes Palm Coast) |                          | Х   |               |  |  |  |  |  |  |  |  |

| City/County      | Decarb Percentage |      |      |  |  |  |  |  |  |  |  |
|------------------|-------------------|------|------|--|--|--|--|--|--|--|--|
| City/County      | 2019              | 2030 | 2050 |  |  |  |  |  |  |  |  |
| Baker County     | 0%                | 82%  | 100% |  |  |  |  |  |  |  |  |
| Clay County      | 0%                | 0%   | 0%   |  |  |  |  |  |  |  |  |
| Duval County     | 0%                | 0%   | 0%   |  |  |  |  |  |  |  |  |
| Nassau County    | 0%                | 82%  | 100% |  |  |  |  |  |  |  |  |
| St. Johns County | 0%                | 82%  | 100% |  |  |  |  |  |  |  |  |
| Palm Coast       | 0%                | 82%  | 100% |  |  |  |  |  |  |  |  |

| City/Courty      | Projected B | Projected Buildings & Facilities GHG Emissions (MT CO2e) |         |  |  |  |  |  |  |  |  |  |  |
|------------------|-------------|--|---------|--|--|--|--|--|--|--|--|--|--|
| City/County      | 2019        | 2030   | 2050    |  |  |  |  |  |  |  |  |  |  |
| Baker County     | 83,420      | 33,900   | -       |  |  |  |  |  |  |  |  |  |  |
| Clay County      | 830,694     | 3,320,078  | 3791019 |  |  |  |  |  |  |  |  |  |  |
| Duval County     | 5,297,213   | 5,129,389  | 7061974 |  |  |  |  |  |  |  |  |  |  |
| Nassau County    | 263,407     | 124,512  | 0       |  |  |  |  |  |  |  |  |  |  |
| St. Johns County | 226,169     | 109,246  | 0       |  |  |  |  |  |  |  |  |  |  |
| Palm Coast       | 822,464     | 446,435  | -       |  |  |  |  |  |  |  |  |  |  |

| Calculations   |  |  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|--|
| GHG Reductions | Change in Population x Decarb Percentage x Electricity Use |  |  |  |  |  |  |  |
|                | (Calculated with ICLEI Forecasting)                        |  |  |  |  |  |  |  |

| Cost and Quantity Information                  |    |               |  |    |              |
|--|----|---------------|--|----|--------------|
| Budget   | \$ | 10,000,000.00 | EEToolkit Quantity per Facility        |    | 70           |
| Training (Hours per Facility per Year)         |    | 16            | Cost per EEToolkit                     | \$ | 300.00       |
| Years  |    | 5             | Total EEToolkit Count                  |    | 9800         |
| Staff Hourly Rate (\$/Hr)                      |    | \$25          | Total Initial EEToolkit Cost           | \$ | 2,940,000.00 |
| Facility Training Over 5 Years (\$ / Facility) |    | \$2,000       | FPL Emissions Rate (MT CO2e/kWh)       |    | 0.0003017    |
| # of Facilities (Assume 35 per MSA)            |    | 140           | FRCC 2019 Emissions Rate (MT CO2e/kWh) |    | 0.000635     |
| Assumed Training Costs Among the State         |    | \$280,000     |  |    |              |
| Maintenance/Yr (Assume 25% / Yr)               | \$ | 3,675,000.00  |  |    |              |

| Location             | Population | # of Libraries or<br>Community<br>Centers | Backpacks per<br>Center | Total Backpacks | Energy Reduction (5<br><u>30%)</u> | How active is your<br>library system /<br>community center? (1-<br>poor; 5 - excellent) |     |       | <u>Average Household</u><br><u>Energy Usage</u><br>(kWh/Yr) | Energy<br>Reduction<br>(kWh) | Emissions Rate (MT<br>CO2e/kWh) |      |       | Reductions by<br>2050 (MT CO2e) |
|----------------------|------------|---|-------------------------|-----------------|------------------------------------|---|-----|-------|---|------------------------------|---------------------------------|------|-------|---------------------------------|
| Baker                | 28263      | 8 1                                       | 70                      | 70              | 5%                                 |   | 50% | 910   | 16,087  | 731958.5                     | 0.0003017                       | 250  | 1250  | 6250                            |
| Clay                 | 219252     | 2 4                                       | 70                      | 280             | 5%                                 |   | 50% | 3640  | 16,087  | 2927834                      | 0.0003017                       | 1010 | 5050  | 25250                           |
| Duval                | 995560     | 18  | 70                      | 1260            | 5%                                 |   | 50% | 16380 | 16,087  | 13175253                     | 0.000635                        | 9560 | 47800 | 239000                          |
| Nassau               | 88625      | 5 4                                       | 70                      | 280             | 5%                                 |   | 50% | 3640  | 16,087  | 2927834                      | 0.0003017                       | 1010 | 5050  | 25250                           |
| Flagler (Palm Coast) | 87696      | 5 1                                       | 70                      | 70              | 5%                                 |   | 50% | 910   | 16,087  | 731958.5                     | 0.0003017                       | 252  | 1260  | 6300                            |
| St Johns             | 264672     | 2 4                                       | 70                      | 280             | 5%                                 |   | 50% | 3640  | 16,087  | 2927834                      | 0.0003017                       | 1010 | 5050  | 25250                           |

|                      |                         | 2             | 030                                    |  | 2050                 |                                     |  |  |
|----------------------|-------------------------|---------------|--|--|----------------------|-------------------------------------|--|--|
| Location             | Total Training<br>Costs | Toolkits Cost | Toolkits Total<br>Maintenance<br>Costs | Cost/mtCO2e<br>Reduction Through<br>2030 | Total Training Costs | Toolkits Total<br>Maintenance Costs | Cost/mtCO2e<br>Reduction<br>Through 2050 |  |
| Baker                | \$2,000                 | \$ 21,000.00  | \$ 26,250.00                           | \$39.40                                  | \$8,000              | \$ 105,000.00                       | \$ 25.96                                 |  |
| Clay                 | \$8,000                 | \$ 84,000.00  | \$ 105,000.00                          | \$39.01                                  | \$32,000             | \$ 420,000.00                       | \$ 25.70                                 |  |
| Duval                | \$36,000                | \$ 378,000.00 | \$ 472,500.00                          | \$18.55                                  | \$144,000            | \$ 1,890,000.00                     | \$ 12.22                                 |  |
| Nassau               | \$8,000                 | \$ 84,000.00  | \$ 105,000.00                          | \$39.01                                  | \$32,000             | \$ 420,000.00                       | \$ 25.70                                 |  |
| Flagler (Palm Coast) | \$2,000                 | \$ 21,000.00  | \$ 26,250.00                           | \$39.09                                  | \$8,000              | \$ 105,000.00                       | \$ 25.75                                 |  |
| St Johns             | \$8,000                 | \$ 84,000.00  | \$ 105,000.00                          | \$39.01                                  | \$32,000             | \$ 420,000.00                       | \$ 25.70                                 |  |

| Calculations                                   |  |  |  |  |  |
|--|--|--|--|--|--|
|  | Cost and Quantity Information  |  |  |  |  |
| Facility Training Over 5 Years (\$ / Facility) | Staff Hourly Rate (\$/Hr) x 5 Years x Training (Hrs / Facility / Yr)   |  |  |  |  |
| Assumed Training Costs Among the State         | # of Facilities x Facility Training Over 5 Years (\$ / Facility)   |  |  |  |  |
| Maintenance/Yr (Assume 25% / Yr)               | 25% x Staff Hourly Rate (\$/Hr) x 5 Years  |  |  |  |  |
| Total EEToolkit Count                          | EEToolkit Quantity per Facility x # of Facilities  |  |  |  |  |
| Total Initial EEToolkit Cost                   | Total EEToolkit Count x Cost per EE Toolkit  |  |  |  |  |
|  | Reductions   |  |  |  |  |
| Total Backpacks                                | # of Libraries or Community Centers x Backpacks per Center   |  |  |  |  |
| Household Checkouts per Year                   | Backpacks per Center x Library Utilization x # of Libraries x 26 Potential Yearly Checkouts per Backpack (Assuming 2 week checkout period) |  |  |  |  |
| Energy Reduction (kWh)                         | Household Checkouts per Year x Average Household Energy Usage (kWh/Yr) x Energy Reduction  |  |  |  |  |
| GHG Reudctions (MT CO2e/Yr)                    | Energy Reduction (kWh) x Emission Rate (MT CO2e/kWh) x Safety Factor   |  |  |  |  |
| Reductions by 2030 or 2050 (MT CO2e)           | Reductions per Year (MT CO2e/Yr) x ( 2025) (Insert 2030 or 2050 into blank)  |  |  |  |  |
|  | Costs  |  |  |  |  |
| Total Training Costs                           | # of Libraries x Facility Training Over 5 Years (\$/Facility)  |  |  |  |  |
| Toolkits Cost                                  | Total Backpacks x Cost per EEToolkit   |  |  |  |  |
| Toolkits Total Maintenance Costs               | 25% x Toolkits Cost x 5 Years  |  |  |  |  |
| Cost/mtCO2e Reduction Through 2030 or 2050     | (Training Cost + Toolkit Cost + Maintenance Cost) / Reductions by 2030 or 2050   |  |  |  |  |
| References                                     |  |  |  |  |  |
| JEA Emission Rate (2019)                       | https://npr.brightspotcdn.com/20/1c/3e08bc104b3ea5f3aa710757f12f/scnef-report-ghg-emissions-duval-county-2001-2020-v6.pdf                  |  |  |  |  |
| FPL Emission Rate (2019)                       | https://www.nexteraenergy.com/sustainability/overview/about-this-report/by-the-numbers.html  |  |  |  |  |
| FL Average Emission Rate (2019)                | https://www.eia.gov/electricity/state/archive/2019/florida/  |  |  |  |  |

\*NEED BACKPACK CHECKOUTS FROM THE PAST 10 YEARS

\*ADDITIONAL TRAINING REQUIRED FOR STAFF

\*ADDITIONAL WORKSHOPS FOR COMMUNITY OUTREACH

\*LIBRARY SURVEY FOLLOW UP TO HOW BACKPACKS AFFECTED THEIR HOUSEHOLD UTILITIES

\*INCENTIVE IDEA: HOW LOW CAN YOU GO, HOUSEHOLD OF THE QUARTER TESTIMONIAL

\*ASSUME 2 WEEK CHECKOUT TIME

additional cost for LED lightbulbs UF IFAS extension office as additional location

| City/County/School District | Population Estimates |            |            |  |  |  |  |
|-----------------------------|----------------------|------------|------------|--|--|--|--|
| City/County/School District | 2019                 | 2030       | 2050       |  |  |  |  |
| City of Jacksonville        | 913521               | 1033635.87 | 1293931.00 |  |  |  |  |
| City of Atlantic Beach      | 13894                | 15720.86   | 19679.76   |  |  |  |  |
| St. Augustine               | 14329                | 21313.06   | 43868.54   |  |  |  |  |
| Duval County Public Schools | -                    | -          | -          |  |  |  |  |

| City/County/School District | Decarb Percentage |      |      |  |  |  |
|-----------------------------|-------------------|------|------|--|--|--|
| City/County/School District | 2019              | 2030 | 2050 |  |  |  |
| СОЈ                         | 0%                | 65%  | 100% |  |  |  |
| City of Atlantic Beach      | 0%                | 65%  | 100% |  |  |  |
| St. Augustine               | 0%                | 65%  | 100% |  |  |  |
| Duval County Public Schools | 0%                | 65%  | 90%  |  |  |  |

| City/County/School District | Projected Buildings & Facilities GHG Emissions (MT CO2e) |        |       |  |  |  |  |
|-----------------------------|--|--------|-------|--|--|--|--|
| City/County/School District | 2019   | 2030   | 2050  |  |  |  |  |
| СОЈ                         | 55,434   | 22,259 | 589   |  |  |  |  |
| City of Atlantic Beach      | 242  | 96     | 0     |  |  |  |  |
| St. Augustine               | 1,430  | 1,000  | 0     |  |  |  |  |
| Duval County Public Schools | 48,071   | 11,273 | 2,932 |  |  |  |  |

| Calculations   |  |  |
|----------------|--|--|
| GHG Reductions | Change in Population x Decarb Percentage x Electricity Use |  |
|                | (Calculated with ICLEI Forecasting)                        |  |

|                 | Sources   |
|-----------------|---|
| Population Data | https://data.census.gov/table/DECENNIALCD1182020.P1 |



#### **Summary of Strategies**

The following infrastructure strategies will help reduce CO2e emissions, peak summer temperatures, improve air quality, and reduce impacts of flooding and stormwater, with benefits accruing first and foremost to LIDAC residents, as well as to all other metropolitan area residents. These infrastructure investments will lower energy demand for residents by reducing urban heat island and direct solar heat gain of buildings and paved surfaces, thereby directly reducing greenhouse gas emissions, improving public health, and advancing environmental justice. Investments will also build community resilience to future extreme weather events, reduce GHG emissions from stormwater management-related energy consumption, and save money. By leveraging funds that regional governments are already investing in updating their existing surface infrastructure, the EPA greatly enhances the impact of CPRG dollars spent, while focusing on infrastructure projects that have myriad co-benefits and lower life-cycle costs.

#### Green Infrastructure

#### Description

Green Infrastructure such as rain gardens, trees and bioswales are valuable tools for reducing greenhouse gas emissions and improving public health, pedestrian comfort, and the overall quality of life in cities. The benefits of green infrastructure include a decrease in emissions, pollution, stormwater runoff, and urban heat islands. *Note: For new construction, green infrastructure often costs less than conventional gray infrastructure. Cost assumptions from this methodology assume a project replaces existing gray infrastructure with green, irrespective of gray infrastructure replacement schedule.* 

- **Objective:** To install green infrastructure such as rain gardens, trees and bioswales in the region. In addition, to encourage the installation of green infrastructure in the metro area by removing the financial barriers to construction.
- Impact: Through the installation of green infrastructure, the region will be providing relief from pollution, stormwater runoff, and urban heat islands. For example, planting additional trees will <u>help reduce surface temperatures by up to 7°F during the day and 22°F at night</u>. This will lead to an overall lower carbon footprint, in alignment with the region's greenhouse gas reduction goals.
- Estimated Emissions Reduction: It is estimated that this project will result in a \$184.92 / MT CO2e reduction through 2030 and a \$176.88 / MT CO2e reduction through 2050.
- Budget: \$10 million total

#### **Implementation and Phasing**

- Review of existing green infrastructure rebate programs: 9/1/24
- Development of green infrastructure rebate program for COJ MSA: 10/1/24
- Review and refine rebate program with stakeholders: 10/1 12/31/24
- Seek additional funding sources (including utility partners and product sponsors): 10/1 12/1/24
- Recruit and train administrators and implementation team: 10/1 1/1/25
- Integrate program into new website; developing training materials and call centers: 10/1 -1/1/25
- Launch ready, pending funding availability: 1/1/25

**Engagement and Feedback:** Regional outreach, master plans, and public surveys have indicated that residents and businesses are open to adopting green infrastructure and technologies that will help improve the quality of life and reduce carbon emissions.

#### **Co-Benefits and Funding Strategy**

- **Public Health:** Green infrastructure such as rain gardens, trees, and bioswales reduce CO2e emissions, air and water pollution, and provide habitat creation for plants and wildlife, creating spaces where residents can enjoy local nature and improve their mental health. In addition, the reduced stormwater runoff and flooding helps reduce the potential for mold growth in homes as well as contact with harmful waterborne pollutants, thus improving public health.
- Environmental Stewardship: This initiative supports the City of Jacksonville's environmental commitment by improving living conditions of (especially LIDAC) residents by reducing air

pollution, stormwater runoff, and urban heat, thereby improving health outcomes and reducing greenhouse gas emissions.

- LIDAC & Environmental Justice: A 2022 CAPA Strategies analysis for Jacksonville observed a difference of 11.8°F across the hottest and coolest parts of the city, and many of the hottest areas of the city were observed in some of the more socially vulnerable communities, including Eastside and New Town. About half of the school properties and 60% of afterschool care facilities are located in areas highly vulnerable to extreme heat, and 34% of households (30,741 households) with individuals over 65 years old are located in highly heat vulnerable areas. Extreme heat events are the leading cause of weather-related deaths in the U.S. Outdoor workers are particularly vulnerable. Nearly 20,000 residential properties in Jacksonville are currently vulnerable to coastal, riverine or stormwater flooding. This is predicted to increase to close to 22,500 by 2070.
- **Economic Development:** Ambient temperature reductions from green infrastructure will improve livability across the metropolitan area, encouraging more economic activity and tourism. Green infrastructure also leads to beautification which results in positive economic activity and further tourism benefits.
- **Funding Gaps:** This program can grow directly in conjunction with funding amounts.

| \$\$/MT CO2e (25 years) |                    |  |
|-------------------------|--------------------|--|
| Rain Gardens            | \$184.92 / MT CO2e |  |
| Trees                   | \$176.88 / MT CO2e |  |

| Assumptio          | Assumptions   |   |  |  |
|--------------------|---|---|--|--|
| Costs              | Rain Garden Cost (per SF)<br>( <u>https://greenvalues.cnt.org/index.php</u> )   | \$6.07 / SF                                       |  |  |
|                    | Tree Cost (per Tree)<br>( <u>https://smartsurfacescoalition.org/baltimore-report</u> )  | \$283 / Tree                                      |  |  |
| CO2e<br>Reductions | Rain Garden CO2e Reduction (per SF)<br>(https://www.sciencedirect.com/science/article/abs/pii/S0959652623<br>039641)                            | 32.825 kg<br>CO2e / SF<br>0.032 MT<br>CO2e / sqft |  |  |
|                    | <b>Tree CO2e Reduction</b> (per Tree)<br>(Average value assumes 50% medium, 50% large trees at 25 years –<br>estimate from City Forest Credits) | 1,600 kg<br>CO2e / Tree                           |  |  |

#### Tables

| Methodology / Assumptions |  |  |  |  |
|---------------------------|--|--|--|--|
| \$\$/MT CO2e              | [Cost (per SF)] / Total CO2e Reductions (per SF) =   |  |  |  |
|                           | Rain Gardens: \$6.07 / .032825 MT CO2e = <b>\$184.92 / MT CO2e</b><br>Trees: \$283 / 1.6 MT CO2e = <b>\$176.88 / MT CO2e</b> |  |  |  |

## Permeable Articulating Concrete Blocks (Permeable Paving)

#### Description

Permeable Articulating Concrete Blocks (P-ACBs) are interlocking pavers engineered to allow high stormwater infiltration rates with long lifespans. P-ACBs have higher solar reflectance than traditional asphalt pavement (close to that of conventional concrete) with added stormwater management benefits (and associated energy consumption reductions). Additional benefits of P-ACBs include reduced surface and ambient temperature from evapotranspirative cooling, reduced air pollution, and reduced energy consumption for surrounding buildings.

- **Objective:** To install Permeable Articulating Concrete Blocks (P-ACBs) in the region. In addition, to encourage the adoption of P-ACBs in the metro area by removing the financial barriers to construction in order to build a new marketplace for these types of projects.
- Impact: Through the installation of P-ACBs, Jacksonville and the surrounding metro area will experience cooler surface and ambient temperatures along with a reduction in stormwater, air pollution, and energy consumption. P-ACBs have higher solar reflectance than traditional asphalt pavement which absorbs less heat leading to lower surface and ambient temperatures. As a permeable surface, the block will also absorb stormwater which will drastically reduce water pollution throughout the city and metro area.
- Estimated Emissions Reduction: It is estimated that this project will result in a \$206.12 / MT CO2e reduction through 2030 and a \$686.45 / MT CO2e reduction through 2050. This, however, only accounts for negative radiative forcing and does not include reduced costs from the consumption of energy due to reduced stormwater runoff.
- Budget: \$10 million total

#### **Implementation and Phasing**

- Review of existing paving rebate programs: 9/1/24
- Development of paving rebate program for COJ MSA: 10/1/24
- Review and refine rebate program with stakeholders: 10/1 12/31/24
- Seek additional funding sources (including utility partners and product sponsors): 10/1 12/1/24
- Recruit and train administrators and implementation team: 10/1 1/1/25
- Integrate program into new website; developing training materials and call centers: 10/1 -1/1/25
- Launch ready, pending funding availability: 1/1/25

**Engagement and Feedback:** Regional outreach, master plans, and public surveys have indicated that residents are open to adopting green infrastructure and technologies that will help reduce energy consumption and combat extreme heat.

#### **Co-Benefits and Funding Strategy**

• **Public Health:** An increase in permeable paving leads to healthier communities through the decrease in CO2e emissions, stormwater runoff, surface and ambient temperatures, and air pollution. This will have a positive impact on alleviating extreme heat-linked mortality, stress, and disease exacerbations from flooding-driven mold growth, as well as ozone production.

- Environmental Stewardship: This initiative supports the region's environmental commitment by living conditions of (especially LIDAC) residents by reducing air pollution, stormwater runoff, and urban heat, thereby improving health outcomes and reducing greenhouse gas emissions.
- LIDAC & Environmental Justice: A 2022 CAPA Strategies analysis for Jacksonville observed a difference of 11.8°F across the hottest and coolest parts of the city, and many of the hottest areas of the city were observed in some of the more socially vulnerable communities, including Eastside and New Town. About half of the school properties and 60% of afterschool care facilities are located in areas highly vulnerable to extreme heat, and 34% of households (30,741 households) with individuals over 65 years old are located in highly heat vulnerable areas. Extreme heat events are the leading cause of weather-related deaths in the U.S. Outdoor workers are particularly vulnerable. Nearly 20,000 residential properties in Jacksonville are currently vulnerable to coastal, riverine or stormwater flooding. This is predicted to increase to close to 22,500 by 2070.
- Economic Development: Surface and ambient temperature reductions will lower energy bills for surrounding buildings, providing savings. Surface and ambient temperature reductions will also improve livability across the metropolitan area, encouraging more economic activity and tourism. Installation of permeable pavers will reduce the municipal costs of managing stormwater leading to more positive outcomes for taxpayers.
- **Funding Gaps:** This program can grow directly in conjunction with funding amounts.

#### Tables

|  | \$\$, | /MT | CO2e |
|--|-------|-----|------|
|--|-------|-----|------|

\$206.12 / MT CO2e [5 years]

(Only from negative radiative forcing – does not account for reduced stormwater management-related energy consumption)

\$686.45 / MT CO2e [25 years]

| Methodology   |   |
|---|---|
| Negative Radiative<br>Forcing Emissions<br>Reduction per SF P-<br>ACB | <pre>[Proposed Change in Reflectance] x [Negative Radiative Forcing Factor] = 5-year analysis: [.27 increase in albedo] x [0.2787 kg CO2e / SF per 0.01 increase in albedo] = 7.52 kg CO2e / SF 25-year analysis: [.27 increase in albedo] x [0.4181 kg CO2e / SF per 0.01 increase in albedo] = 11.29 kg CO2e / SF</pre> |

| \$\$/MT CO2e | [Cost Premium per SF / year] x [Analysis Period] / [Negative Radiative Forcing per SF] =               |
|--------------|--|
|              | <i>5-year:</i><br>(\$0.31 / SF / year) x (5 years) / 7.52 kg CO2e / SF) = <b>\$206.12 / MT CO2e</b>    |
|              | <i>25-year:</i><br>(\$0.31 / SF / year) x (25 years) / 11.29 kg CO2e / SF) = <b>\$686.45 / MT CO2e</b> |

| Assumptions |  |   |  |  |  |  |
|-------------|--|---|--|--|--|--|
| Costs       | <b>Cost Premium of P-ACBs</b><br>(compared to conventional asphalt – includes installation and<br>maintenance costs, <b>does not account for avoided stormwater</b><br><b>management costs</b> )   | \$0.31 / SF / year  |  |  |  |  |
| Reflectance | Average Asphalt Albedo during 5-7 year period  | 0.08-0.12   |  |  |  |  |
|             | P-ACB Albedo   | 0.37  |  |  |  |  |
|             | Albedo Increase  | 0.27  |  |  |  |  |
|             | Negative Radiative Forcing (NRF) Factor<br>[https://iopscience.iop.org/article/10.1088/1748-<br>9326/7/2/024004/meta#erl422949fig4: Approximate CO2e<br>reduction based on long term impact of albedo increase –<br>calculation assumes 3 kg CO2e / m <sup>2</sup> (impact at 5 years) 4.5 kg<br>CO2e / m <sup>2</sup> (at 25 years) | 0.2787 kg CO2e / SF<br>&<br>0.4181 kg CO2e / SF<br>(for 5 and 25 years<br>respectively, 0.01<br>increase in albedo) |  |  |  |  |

#### **Cool Pavements**

#### Description

Cool pavements are engineered to reflect more sunlight than conventional dark asphalt, using coatings, sealants, and reflective particles. The benefits of cool pavements include reduced pavement surface temperature, air pollution, ambient temperatures, and energy consumption for surrounding buildings.

- **Objective:** To install cool pavements within the City of Jacksonville. In addition, to encourage the adoption of cool pavements in the metro area by removing the financial barriers to construction.
- Impact: Through the installation of cool pavements, Jacksonville and the surrounding metro area will experience cooler surface and ambient temperatures along with less air pollution and energy consumption. Using coatings, sealants, and reflective particles, cool pavements are engineered to reflect more sunlight than conventional dark asphalt which creates surfaces that do not trap as much heat. All together, this will reduce urban heat islands and CO2e emissions.
- Estimated Emissions Reduction: It is estimated that this project will result in a \$205.13/ MT CO2e reduction through 2030 and a \$341.88 / MT CO2e reduction through 2050. In addition, for parking lots, the shift from dark to light surfaces can result in a 15°F cooler surface temperature and 0.44 kg co2/m2/yr carbon savings.
- Budget: \$10 million total

#### **Implementation and Phasing**

- Review of existing cool pavement rebate programs; 9/1/24
- Development of cool pavement rebate program for COJ MSA: 10/1/24
- Review and refine rebate program with stakeholders: 10/1 12/31/24
- Seek additional funding sources (including utility partners and product sponsors): 10/1 12/1/24
- Recruit and train administrators and implementation team: 10/1 1/1/25
- Integrate program into new website; developing training materials and call centers: 10/1 -1/1/25
- Launch ready, pending funding availability: 1/1/25

**Engagement and Feedback:** Regional outreach, master plans, and public surveys have indicated that residents are open to adopting green infrastructure and technologies that will help reduce energy consumption and combat extreme heat.

#### **Co-Benefits and Funding Strategy**

- **Public Health:** An increase in cool pavements leads to healthier communities through the decrease in surface and ambient temperatures, along with air pollution. This will promote the physical well-being of residents, encouraging outdoor activities.
- Environmental Stewardship: This initiative supports the region's environmental commitment and improves the living conditions of (especially LIDAC) residents by reducing air pollution, energy consumption, and urban heat, thereby improving health outcomes and reducing CO2e emissions.

- LIDAC & Environmental Justice: A 2022 CAPA Strategies analysis for Jacksonville observed a difference of 11.8°F across the hottest and coolest parts of the city, and many of the hottest areas of the city were observed in some of the more socially vulnerable communities, including Eastside and New Town. About half of the school properties and 60% of afterschool care facilities are located in areas highly vulnerable to extreme heat, and 34% of households (30,741 households) with individuals over 65 years old are located in highly heat vulnerable areas. Extreme heat events are the leading cause of weather-related deaths in the U.S. Outdoor workers are particularly vulnerable.
- Economic Development: Surface and ambient temperature reductions will lower energy bills for surrounding buildings, providing savings. Surface and ambient temperature reductions will also improve livability across the metropolitan area, encouraging more economic activity and tourism.
- **Funding Gaps:** This program can grow directly in conjunction with funding amounts.

| \$\$/MT CO2e | \$25.64 to \$205.13 / MT CO2e [5 years]  |
|--------------|--|
|              | \$68.38 to \$341.88 / MT CO2e [25 years] |

| Methodology  |   |
|--|---|
| <b>Negative Radiative</b><br><b>Forcing</b> Emissions<br>Reduction per SF Cool<br>Pavement | <pre>[Proposed Change in Road Reflectance] x [Negative Radiative Forcing Factor] = 5-year analysis: [.14 increase in albedo] x [0.2787 kg CO2e / SF per 0.01 increase in albedo] = 3.90 kg CO2e / SF 25-year analysis: [.14 increase in albedo] x [0.4181 kg CO2e / SF per 0.01 increase in albedo] = 5.85 kg CO2e / SF</pre> |
| \$\$/MT CO2e   | [Cost Premium per SF] / [Negative Radiative Forcing per SF] =<br>5-year:<br>(\$0.10-0.80 / SF) / 3.90 kg CO2e / SF) = <b>\$25.64</b> to <b>\$205.13 / MT CO2e</b><br>25-year:<br>(\$0.40-2.00 / SF) / 5.85 kg CO2e / SF) = <b>\$68.38</b> to <b>\$341.88 / MT CO2e</b>  |

#### Tables

#### Assumptions

| Costs       | Cost Premium of Solar Reflective ("Cool") Pavement<br>Maintenance Coating<br>(compared to conventional slurry seal)   | \$0.10-0.40 / SF  |
|-------------|---|---|
| Maintenance | Maintenance Cadence<br>(Average duration between coating installations)   | 5-7 years   |
|             | Maintenance Cost Premium over 5- and 25-year period   | \$0.10-0.80 / SF,<br>\$0.40-2.00 / SF   |
| Reflectance | Average Asphalt Albedo during 5-7 year period   | 0.08-0.12   |
|             | Average Cool Pavement Maintenance Coating Albedo<br>(between coatings)  | 0.19-0.25   |
|             | Albedo Increase<br>(assumes average coated reflectance of 0.22)   | 0.10-0.14   |
|             | <b>Negative Radiative Forcing (NRF) Factor</b><br>[https://iopscience.iop.org/article/10.1088/1748-<br><u>9326/7/2/024004/meta#erl422949fig4</u> : Approximate CO2e<br>reduction based on long term impact of albedo increase –<br>calculation assumes 3 kg CO2e / m <sup>2</sup> (impact at 5 years) 4.5 kg<br>CO2e / m <sup>2</sup> (at 25 years) | 0.2787 kg CO2e / SF<br>&<br>0.4181 kg CO2e / SF<br>(for 5 and 25 years<br>respectively, 0.01<br>increase in albedo) |

#### Low-Carbon Concrete

**Description:** Concrete is currently responsible for about 8% of global emissions. With current and indevelopment innovations, concrete can be carbon neutral or even carbon negative. The benefits of low carbon concrete include a reduced carbon footprint of concrete as well as a relatively high albedo leading to a reduction in extreme urban heat. *Note: Assuming a city will continue to maintain its roads, these are stable differences across whatever time period you pick as long as it is a minimum of 5-7 years. Note: This assumes the cool pavement maintenance coating is at least as durable as the slurry seal and only loses 5-10% of its starting albedo reflectance benefit per year between coatings. Finally, there is an avoidance of GWP due to decreased repaving across a 50-year period, but this effect is not only highly product- and geography-specific, but also a smaller contributor to the overall reduction in GWP when compared to radiative effects.* 

- **Objective:** To transition to low-carbon concrete manufacturing processes within the City of Jacksonville and surrounding metro area. In addition, to encourage the adoption of low-carbon concrete in the metro area's new construction and and renovations by removing the financial barriers to construction.
- **Impact:** Through the implementation of low-carbon concrete, Jacksonville and the surrounding metro area will reduce GHG emissions.

**Engagement and Feedback:** Regional outreach, master plans, and public surveys have indicated that residents are open to adopting technologies that will help reduce energy consumption and GHG emissions.

#### **Co-Benefits and Funding Strategy**

- **Public Health:** An increase in low-carbon concrete leads to healthier communities through the decrease in air pollution. This will promote the physical well-being of residents, encouraging outdoor activities.
- Environmental Stewardship: This initiative supports the region's environmental commitment and improves the living conditions of (especially LIDAC) residents by reducing air pollution, energy consumption, and urban heat, thereby improving health outcomes and reducing CO2e emissions.
- LIDAC & Environmental Justice: A 2022 CAPA Strategies analysis for Jacksonville observed a difference of 11.8°F across the hottest and coolest parts of the city, and many of the hottest areas of the city were observed in some of the more socially vulnerable communities, including Eastside and New Town. About half of the school properties and 60% of afterschool care facilities are located in areas highly vulnerable to extreme heat, and 34% of households (30,741 households) with individuals over 65 years old are located in highly heat vulnerable areas. Extreme heat events are the leading cause of weather-related deaths in the U.S. Outdoor workers are particularly vulnerable.
- **Funding Gaps:** This program can grow directly in conjunction with funding amounts.

#### NEFL GHG Emissions Projections for Residential and Commercial Energy Usage

| Year | P    | opulation | Category           | CO2e                      |               | l        | MT/person   |
|------|------|-----------|--------------------|---------------------------|---------------|----------|-------------|
|      | 2019 | 1484855   | Residential Energy | 3662180 Commercial Energy | 3861187 Total | 7523367  | 5.066735136 |
|      | 2020 | 0         | Residential Energy | 3696600 Commercial Energy | 3107273 Total | 6803873  |             |
|      | 2021 | 0         | Residential Energy | 3877646 Commercial Energy | 3215016 Total | 7092662  |             |
|      | 2022 | 0         | Residential Energy | 4105570 Commercial Energy | 3345879 Total | 7451449  |             |
|      | 2023 | 0         | Residential Energy | 4392545 Commercial Energy | 3505834 Total | 7898379  |             |
|      | 2024 | 0         | Residential Energy | 4754013 Commercial Energy | 3702445 Total | 8456458  |             |
|      | 2025 | 0         | Residential Energy | 5209543 Commercial Energy | 3945307 Total | 9154850  |             |
|      | 2026 | 0         | Residential Energy | 5199672 Commercial Energy | 3946382 Total | 9146054  |             |
|      | 2027 | 0         | Residential Energy | 5193895 Commercial Energy | 3949624 Total | 9143519  |             |
|      | 2028 | 0         | Residential Energy | 5191949 Commercial Energy | 3954897 Total | 9146846  |             |
|      | 2029 | 0         | Residential Energy | 5193586 Commercial Energy | 3962069 Total | 9155655  |             |
|      | 2030 | 2046114   | Residential Energy | 5198580 Commercial Energy | 3971022 Total | 9169602  | 4.481471707 |
|      | 2031 | 0         | Residential Energy | 5245733 Commercial Energy | 4020122 Total | 9265855  |             |
|      | 2032 | 0         | Residential Energy | 5295018 Commercial Energy | 4070761 Total | 9365779  |             |
|      | 2033 | 0         | Residential Energy | 5346403 Commercial Energy | 4122933 Total | 9469336  |             |
|      | 2034 | 0         | Residential Energy | 5399865 Commercial Energy | 4176637 Total | 9576502  |             |
|      | 2035 | 0         | Residential Energy | 5455378 Commercial Energy | 4231867 Total | 9687245  |             |
|      | 2036 | 0         | Residential Energy | 5466448 Commercial Energy | 4261938 Total | 9728386  |             |
|      | 2037 | 0         | Residential Energy | 5484926 Commercial Energy | 4296183 Total | 9781109  |             |
|      | 2038 | 0         | Residential Energy | 5509956 Commercial Energy | 4334177 Total | 9844133  |             |
|      | 2039 | 0         | Residential Energy | 5540805 Commercial Energy | 4375557 Total | 9916362  |             |
|      | 2040 | 0         | Residential Energy | 5576829 Commercial Energy | 4419999 Total | 9996828  |             |
|      | 2041 | 0         | Residential Energy | 5455855 Commercial Energy | 4382071 Total | 9837926  |             |
|      | 2042 | 0         | Residential Energy | 5506921 Commercial Energy | 4432567 Total | 9939488  |             |
|      | 2043 | 0         | Residential Energy | 5565293 Commercial Energy | 4487200 Total | 10052493 |             |
|      | 2044 | 0         | Residential Energy | 5624694 Commercial Energy | 4542733 Total | 10167427 |             |
|      | 2045 | 0         | Residential Energy | 5684873 Commercial Energy | 4599046 Total | 10283919 |             |
|      | 2046 | 0         | Residential Energy | 5741844 Commercial Energy | 4652994 Total | 10394838 |             |
|      | 2047 | 0         | Residential Energy | 5799524 Commercial Energy | 4707662 Total | 10507186 |             |
|      | 2048 | 0         | Residential Energy | 5857920 Commercial Energy | 4763061 Total | 10620981 |             |
|      | 2049 |           | Residential Energy | 5917044 Commercial Energy | 4819200 Total | 10736244 |             |
|      | 2050 | 2411300   | Residential Energy | 5976904 Commercial Energy | 4876089 Total | 10852993 | 4.500888732 |

St. Johns County GHG Emissions Projections for Residential and Commercial Energy Usage

| Year F | Population Category       | CO2e Yea | ar Category            | CO2e                      | CO2e    |
|--------|---------------------------|----------|------------------------|---------------------------|---------|
| 2019   | 264672 Residential Energy | 467,156  | 2019 Commercial Energy | 355308 Total              | 822464  |
| 2020   | Residential Energy        | 444761   | 2020 Commercial Energy | 259659 Total              | 704420  |
| 2021   | Residential Energy        | 437870   | 2021 Commercial Energy | 255636 Total              | 693506  |
| 2022   | Residential Energy        | 431085   | 2022 Commercial Energy | 251675 Total              | 682760  |
| 2023   | Residential Energy        | 424406   | 2023 Commercial Energy | 247775 Total              | 672181  |
| 2024   | Residential Energy        | 417830   | 2024 Commercial Energy | 243936 Total              | 661766` |
| 2025   | Residential Energy        | 411356   | 2025 Commercial Energy | 240156 Total              | 651512  |
| 2026   | Residential Energy        | 381438   | 2026 Commercial Energy | 222690 Total              | 604128  |
| 2027   | Residential Energy        | 353696   | 2027 Commercial Energy | 206493 Total              | 560189  |
| 2028   | Residential Energy        | 327971   | 2028 Commercial Energy | 191475 Total              | 519446  |
| 2029   | Residential Energy        | 304118   | 2029 Commercial Energy | 177549 Total              | 481667  |
| 2030   | 385500 Residential Energy | 281999   | 2030 Commercial Energy | 164636 <mark>Total</mark> | 446635  |
| 2031   | Residential Energy        | 269651   | 2031 Commercial Energy | 157427 Total              | 427078  |
| 2032   | Residential Energy        | 257843   | 2032 Commercial Energy | 150533 Total              | 408376  |
| 2033   | Residential Energy        | 246553   | 2033 Commercial Energy | 143941 Total              | 390494  |
| 2034   | Residential Energy        | 235756   | 2034 Commercial Energy | 137638 Total              | 373394  |
| 2035   | Residential Energy        | 225433   | 2035 Commercial Energy | 131611 Total              | 357044  |
| 2036   | Residential Energy        | 195973   | 2036 Commercial Energy | 114412 Total              | 310385  |
| 2037   | Residential Energy        | 170364   | 2037 Commercial Energy | 99461 Total               | 269825  |
| 2038   | Residential Energy        | 148100   | 2038 Commercial Energy | 86463 Total               | 234563  |
| 2039   | Residential Energy        | 128747   | 2039 Commercial Energy | 75164 Total               | 203911  |
| 2040   | Residential Energy        | 111922   | 2040 Commercial Energy | 65342 Total               | 177264  |
| 2041   | Residential Energy        | 4994     | 2041 Commercial Energy | 2916 Total                | 7910    |
| 2042   | Residential Energy        | 223      | 2042 Commercial Energy | 130 Total                 | 353     |
| 2043   | Residential Energy        | 10       | 2043 Commercial Energy | 6 Total                   | 16      |
| 2044   | Residential Energy        | 0        | 2044 Commercial Energy | 0 Total                   | 0       |
| 2045   | Residential Energy        | 0        | 2045 Commercial Energy | 0 Total                   | 0       |
| 2046   | Residential Energy        | 0        | 2046 Commercial Energy | 0 Total                   | 0       |
| 2047   | Residential Energy        | 0        | 2047 Commercial Energy | 0 Total                   | 0       |
| 2048   | Residential Energy        | 0        | 2048 Commercial Energy | 0 Total                   | 0       |
| 2049   | Residential Energy        | 0        | 2049 Commercial Energy | 0 Total                   | 0       |
| 2050   | 513900 Residential Energy | 0        | 2050 Commercial Energy | 0 <mark>Total</mark>      | 0       |

Growth Rate Source: Rayer, S., & Comfort, C. (2024). Projections of Florida Population by County 2025–2050 with Estimates for 2023. \*Florida Population Studies\*, 57(198). Bureau of Economic and Business Research, College of Liberal Arts and Sciences, University of Florida.

#### City of Palm Coast GHG Emissions Projections for Residential and Commercial Energy Usage

| Year | Population Category         | CO2e   | Year | Category          | CO2e                     | CO2e   |
|------|-----------------------------|--------|------|-------------------|--------------------------|--------|
| 2019 | 87969 Residential Energy    | 164072 | 2019 | Commercial Energy | 62097 <mark>Total</mark> | 226169 |
| 2020 | ) Residential Energy        | 150077 | 2020 | Commercial Energy | 43599 Total              | 193676 |
| 2021 | Residential Energy          | 141953 | 2021 | Commercial Energy | 41239 Total              | 183192 |
| 2022 | 2 Residential Energy        | 134270 | 2022 | Commercial Energy | 39007 Total              | 173277 |
| 2023 | 8 Residential Energy        | 127002 | 2023 | Commercial Energy | 36896 Total              | 163898 |
| 2024 | Residential Energy          | 120128 | 2024 | Commercial Energy | 34899 Total              | 155027 |
| 2025 | 5 Residential Energy        | 113625 | 2025 | Commercial Energy | 33010 Total              | 146635 |
| 2026 | 6 Residential Energy        | 107130 | 2026 | Commercial Energy | 31123 Total              | 138253 |
| 2027 | 7 Residential Energy        | 101005 | 2027 | Commercial Energy | 29343 Total              | 130348 |
| 2028 | 8 Residential Energy        | 95231  | 2028 | Commercial Energy | 27666 Total              | 122897 |
| 2029 | 9 Residential Energy        | 89786  | 2029 | Commercial Energy | 26084 Total              | 115870 |
| 2030 | 0 109514 Residential Energy | 84653  | 2030 | Commercial Energy | 24593 <mark>Total</mark> | 109246 |
| 2031 | Residential Energy          | 80412  | 2031 | Commercial Energy | 23361 Total              | 103773 |
| 2032 | 2 Residential Energy        | 76384  | 2032 | Commercial Energy | 22191 Total              | 98575  |
| 2033 | 8 Residential Energy        | 72557  | 2033 | Commercial Energy | 21079 Total              | 93636  |
| 2034 | Residential Energy          | 68922  | 2034 | Commercial Energy | 20023 Total              | 88945  |
| 2035 | 5 Residential Energy        | 65470  | 2035 | Commercial Energy | 19020 Total              | 84490  |
| 2036 | 6 Residential Energy        | 56695  | 2036 | Commercial Energy | 16471 Total              | 73166  |
| 2037 | 7 Residential Energy        | 49096  | 2037 | Commercial Energy | 14263 Total              | 63359  |
| 2038 | 8 Residential Energy        | 42516  | 2038 | Commercial Energy | 12351 Total              | 54867  |
| 2039 | 9 Residential Energy        | 36817  | 2039 | Commercial Energy | 10696 Total              | 47513  |
| 2040 | ) Residential Energy        | 31883  | 2040 | Commercial Energy | 9262 Total               | 41145  |
| 2041 | Residential Energy          | 1419   | 2041 | Commercial Energy | 412 Total                | 1831   |
| 2042 | 2 Residential Energy        | 63     | 2042 | Commercial Energy | 18 Total                 | 81     |
| 2043 | B Residential Energy        | 3      | 2043 | Commercial Energy | 1 Total                  | 4      |
| 2044 | Residential Energy          | 0      | 2044 | Commercial Energy | 0 Total                  | 0      |
| 2045 | 5 Residential Energy        | 0      | 2045 | Commercial Energy | 0 Total                  | 0      |
| 2046 | 6 Residential Energy        | 0      | 2046 | Commercial Energy | 0 Total                  | 0      |
| 2047 | 7 Residential Energy        | 0      | 2047 | Commercial Energy | 0 Total                  | 0      |
| 2048 | 8 Residential Energy        | 0      | 2048 | Commercial Energy | 0 Total                  | 0      |
| 2049 | 9 Residential Energy        | 0      | 2049 | Commercial Energy | 0 Total                  | 0      |
| 2050 | 136000 Residential Energy   | 0      | 2050 | Commercial Energy | 0 <mark>Total</mark>     | 0      |

Growth Rate Source: Community Development Department. (2021). 2021 Annual growth and development trends report for the City of Palm Coast. City of Palm Coast.

#### Nassau County GHG Emissions Projections for Residential and Commercial Energy Usage

| Year F | Population Category       | CO2e   | Year | Category          | CO2e                     | CO2e          |
|--------|---------------------------|--------|------|-------------------|--------------------------|---------------|
| 2019   | 88625 Residential Energy  | 158659 | 2019 | Commercial Energy | 104748 Total             | 263407        |
| 2020   | Residential Energy        | 149386 | 2020 | Commercial Energy | 75705 Total              | 225091        |
| 2021   | Residential Energy        | 145448 | 2021 | Commercial Energy | 73709 Total              | 219157        |
| 2022   | Residential Energy        | 141614 | 2022 | Commercial Energy | 71766 Total              | 213380        |
| 2023   | Residential Energy        | 137881 | 2023 | Commercial Energy | 69875 Total              | 207756        |
| 2024   | Residential Energy        | 134247 | 2024 | Commercial Energy | 68033 Total              | 202280        |
| 2025   | Residential Energy        | 130708 | 2025 | Commercial Energy | 66239 Total              | 196947        |
| 2026   | Residential Energy        | 120353 | 2026 | Commercial Energy | 60992 Total              | 181345        |
| 2027   | Residential Energy        | 110818 | 2027 | Commercial Energy | 56160 Total              | 166978        |
| 2028   | Residential Energy        | 102039 | 2028 | Commercial Energy | 51711 Total              | 153750        |
| 2029   | Residential Energy        | 93955  | 2029 | Commercial Energy | 47614 Total              | 141569        |
| 2030   | 116600 Residential Energy | 86512  | 2030 | Commercial Energy | 43842 <mark>Total</mark> | <u>130354</u> |
| 2031   | Residential Energy        | 82288  | 2031 | Commercial Energy | 41702 Total              | 123990        |
| 2032   | Residential Energy        | 78271  | 2032 | Commercial Energy | 39666 Total              | 117937        |
| 2033   | Residential Energy        | 74449  | 2033 | Commercial Energy | 37729 Total              | 112178        |
| 2034   | Residential Energy        | 70815  | 2034 | Commercial Energy | 35887 Total              | 106702        |
| 2035   | Residential Energy        | 67357  | 2035 | Commercial Energy | 34135 Total              | 101492        |
| 2036   | Residential Energy        | 58406  | 2036 | Commercial Energy | 29599 Total              | 88005         |
| 2037   | Residential Energy        | 50644  | 2037 | Commercial Energy | 25665 Total              | 76309         |
| 2038   | Residential Energy        | 43913  | 2038 | Commercial Energy | 22254 Total              | 66167         |
| 2039   | Residential Energy        | 38077  | 2039 | Commercial Energy | 19297 Total              | 57374         |
| 2040   | Residential Energy        | 33017  | 2040 | Commercial Energy | 16732 Total              | 49749         |
| 2041   | Residential Energy        | 585    | 2041 | Commercial Energy | 296 Total                | 881           |
| 2042   | Residential Energy        | 10     | 2042 | Commercial Energy | 5 Total                  | 15            |
| 2043   | Residential Energy        | 0      | 2043 | Commercial Energy | 0 Total                  | 0             |
| 2044   | Residential Energy        | 0      | 2044 | Commercial Energy | 0 Total                  | 0             |
| 2045   | Residential Energy        | 0      | 2045 | Commercial Energy | 0 Total                  | 0             |
| 2046   | Residential Energy        | 0      | 2046 | Commercial Energy | 0 Total                  | 0             |
| 2047   | Residential Energy        | 0      | 2047 | Commercial Energy | 0 Total                  | 0             |
| 2048   | Residential Energy        | 0      | 2048 | Commercial Energy | 0 Total                  | 0             |
| 2049   | Residential Energy        | 0      | 2049 | Commercial Energy | 0 Total                  | 0             |
| 2050   | 145800 Residential Energy | 0      | 2050 | Commercial Energy | 0 <mark>Total</mark>     | 0             |

Growth Rate Source: Rayer, S., & Comfort, C. (2024). Projections of Florida Population by County 2025–2050 with Estimates for 2023. \*Florida Population Studies\*, 57(198). Bureau of Economic and Business Research, College of Liberal Arts and Sciences, University of Florida.

Duval County GHG Emissions Projections for Residential and Commercial Energy Usage

| Year | Population Category        | CO2e    | Year | Category            | CO2e                       | CO2e    |
|------|----------------------------|---------|------|---------------------|----------------------------|---------|
| 2019 | 957755 Residential Energy  | 2300949 | 201  | 9 Commercial Energy | 2996264 <mark>Total</mark> | 5297213 |
| 2020 | Residential Energy         | 2263997 | 202  | 0 Commercial Energy | 2394639 Total              | 4658636 |
| 2021 | Residential Energy         | 2295724 | 202  | 1 Commercial Energy | 2428197 Total              | 4723921 |
| 2022 | Residential Energy         | 2327896 | 202  | 2 Commercial Energy | 2462225 Total              | 4790121 |
| 2023 | Residential Energy         | 2360518 | 202  | 3 Commercial Energy | 2496730 Total              | 4857248 |
| 2024 | Residential Energy         | 2393598 | 202  | 4 Commercial Energy | 2531718 Total              | 4925316 |
| 2025 | Residential Energy         | 2427141 | 202  | 5 Commercial Energy | 2567197 Total              | 4994338 |
| 2026 | Residential Energy         | 2440128 | 202  | 6 Commercial Energy | 2580933 Total              | 5021061 |
| 2027 | Residential Energy         | 2453184 | 202  | 7 Commercial Energy | 2594743 Total              | 5047927 |
| 2028 | Residential Energy         | 2466310 | 202  | 8 Commercial Energy | 2608626 Total              | 5074936 |
| 2029 | Residential Energy         | 2479506 | 202  | 9 Commercial Energy | 2622584 Total              | 5102090 |
| 2030 | 1149800 Residential Energy | 2492773 | 203  | 0 Commercial Energy | 2636616 <mark>Total</mark> | 5129389 |
| 2031 | Residential Energy         | 2539090 | 203  | 1 Commercial Energy | 2685605 Total              | 5224695 |
| 2032 | Residential Energy         | 2586267 | 203  | 2 Commercial Energy | 2735505 Total              | 5321772 |
| 2033 | Residential Energy         | 2634320 | 203  | 3 Commercial Energy | 2786331 Total              | 5420651 |
| 2034 | Residential Energy         | 2683266 | 203  | 4 Commercial Energy | 2838102 Total              | 5521368 |
| 2035 | Residential Energy         | 2733122 | 203  | 5 Commercial Energy | 2890834 Total              | 5623956 |
| 2036 | Residential Energy         | 2778294 | 203  | 6 Commercial Energy | 2938613 Total              | 5716907 |
| 2037 | Residential Energy         | 2824212 | 203  | 7 Commercial Energy | 2987181 Total              | 5811393 |
| 2038 | Residential Energy         | 2870889 | 203  | 8 Commercial Energy | 3036551 Total              | 5907440 |
| 2039 | Residential Energy         | 2918338 | 203  | 9 Commercial Energy | 3086738 Total              | 6005076 |
| 2040 | Residential Energy         | 2966571 | 204  | 0 Commercial Energy | 3137754 Total              | 6104325 |
| 2041 | Residential Energy         | 3011097 | 204  | 1 Commercial Energy | 3184850 Total              | 6195947 |
| 2042 | Residential Energy         | 3056291 | 204  | 2 Commercial Energy | 3232652 Total              | 6288943 |
| 2043 | Residential Energy         | 3102164 | 204  | 3 Commercial Energy | 3281171 Total              | 6383335 |
| 2044 | Residential Energy         | 3148725 | 204  | 4 Commercial Energy | 3330419 Total              | 6479144 |
| 2045 | Residential Energy         | 3195985 | 204  | 5 Commercial Energy | 3380406 Total              | 6576391 |
| 2046 | Residential Energy         | 3241846 | 204  | 6 Commercial Energy | 3428914 Total              | 6670760 |
| 2047 | Residential Energy         | 3288366 | 204  | 7 Commercial Energy | 3478118 Total              | 6766484 |
| 2048 | Residential Energy         | 3335553 | 204  | 8 Commercial Energy | 3528028 Total              | 6863581 |
| 2049 | Residential Energy         | 3383417 | 204  | 9 Commercial Energy | 3578654 Total              | 6962071 |
| 2050 | 1291400 Residential Energy | 3431968 | 205  | 0 Commercial Energy | 3630006 <mark>Total</mark> | 7061974 |

Growth Rate Source: Rayer, S., & Comfort, C. (2024). Projections of Florida Population by County 2025–2050 with Estimates for 2023. \*Florida Population Studies\*, 57(198). Bureau of Economic and Business Research, College of Liberal Arts and Sciences, University of Florida.

Grid Electricity Factor Set Source: JEA. (2023). 2023 Electric Generation Integrated Resource Plan. Jacksonville Electric Authority.

#### Clay County GHG Emissions Projections for Residential and Commercial Energy Usage

| Year | Population | Category                  | CO2e    | Year | Category          | CO2e                       | CO2e    |
|------|------------|---------------------------|---------|------|-------------------|----------------------------|---------|
| 201  | 9 57571    | Residential Energy        | 517481  | 2019 | Commercial Energy | 313213 <mark>Total</mark>  | 830694  |
| 202  | 0          | Residential Energy        | 638948  | 2020 | Commercial Energy | 312850 Total               | 951798  |
| 202  | 1          | Residential Energy        | 809742  | 2021 | Commercial Energy | 396476 Total               | 1206218 |
| 202  | 2          | <b>Residential Energy</b> | 1026189 | 2022 | Commercial Energy | 502455 Total               | 1528644 |
| 202  | 3          | Residential Energy        | 1300493 | 2023 | Commercial Energy | 636764 Total               | 1937257 |
| 202  | 4          | Residential Energy        | 1648120 | 2024 | Commercial Energy | 806973 Total               | 2455093 |
| 202  | 5          | Residential Energy        | 2088669 | 2025 | Commercial Energy | 1022680 Total              | 3111349 |
| 202  | 6          | Residential Energy        | 2115970 | 2026 | Commercial Energy | 1036048 Total              | 3152018 |
| 202  | 7          | Residential Energy        | 2143628 | 2027 | Commercial Energy | 1049590 Total              | 3193218 |
| 202  | 8          | Residential Energy        | 2171647 | 2028 | Commercial Energy | 1063309 Total              | 3234956 |
| 202  | 9          | Residential Energy        | 2200033 | 2029 | Commercial Energy | 1077207 Total              | 3277240 |
| 203  | 0 254500   | Residential Energy        | 2228790 | 2030 | Commercial Energy | 1091288 <mark>Total</mark> | 3320078 |
| 203  | 1          | Residential Energy        | 2251781 | 2031 | Commercial Energy | 1102545 Total              | 3354326 |
| 203  | 2          | Residential Energy        | 2275009 | 2032 | Commercial Energy | 1113918 Total              | 3388927 |
| 203  | 3          | Residential Energy        | 2298476 | 2033 | Commercial Energy | 1125408 Total              | 3423884 |
| 203  | 4          | Residential Energy        | 2322186 | 2034 | Commercial Energy | 1137018 Total              | 3459204 |
| 203  | 5          | Residential Energy        | 2346141 | 2035 | Commercial Energy | 1148746 Total              | 3494887 |
| 203  | 6          | Residential Energy        | 2361696 | 2036 | Commercial Energy | 1156363 Total              | 3518059 |
| 203  | 7          | Residential Energy        | 2377355 | 2037 | Commercial Energy | 1164030 Total              | 3541385 |
| 203  | 8          | Residential Energy        | 2393118 | 2038 | Commercial Energy | 1171748 Total              | 3564866 |
| 203  | 9          | Residential Energy        | 2408986 | 2039 | Commercial Energy | 1179517 Total              | 3588503 |
| 204  | 0          | Residential Energy        | 2424958 | 2040 | Commercial Energy | 1187338 Total              | 3612296 |
| 204  | 1          | Residential Energy        | 2437611 | 2041 | Commercial Energy | 1193534 Total              | 3631145 |
| 204  | 2          | Residential Energy        | 2450331 | 2042 | Commercial Energy | 1199761 Total              | 3650092 |
| 204  | 3          | Residential Energy        | 2463116 | 2043 | Commercial Energy | 1206022 Total              | 3669138 |
| 204  | 4          | Residential Energy        | 2475969 | 2044 | Commercial Energy | 1212314 Total              | 3688283 |
| 204  | 5          | Residential Energy        | 2488888 | 2045 | Commercial Energy | 1218640 Total              | 3707528 |
| 204  | 6          | Residential Energy        | 2499998 | 2046 | Commercial Energy | 1224080 Total              | 3724078 |
| 204  | 7          | Residential Energy        | 2511158 | 2047 | Commercial Energy | 1229544 Total              | 3740702 |
| 204  | 8          | Residential Energy        | 2522367 | 2048 | Commercial Energy | 1235033 Total              | 3757400 |
| 204  | 9          | Residential Energy        | 2533627 | 2049 | Commercial Energy | 1240546 Total              | 3774173 |
| 205  | 0 290600   | Residential Energy        | 2544936 | 2050 | Commercial Energy | 1246083 <mark>Total</mark> | 3791019 |

Growth Rate Source: Rayer, S., & Comfort, C. (2024). Projections of Florida Population by County 2025–2050 with Estimates for 2023. \*Florida Population Studies\*, 57(198). Bureau of Economic and Business Research, College of Liberal Arts and Sciences, University of Florida.

Grid Electricity Factor Set Source: FRCC eGrid 2019 (861.028 CO2lbs/MWH ; 55 CH4 lbs / GWh ; 7 N2O lbs / GWh); assume business as usual

#### Baker County GHG Emissions Projections for Residential and Commercial Energy Usage

| Year | Population Category      | CO2e  | Year | Category          | CO2e                     | CO2e  |
|------|--------------------------|-------|------|-------------------|--------------------------|-------|
| 2019 | 28263 Residential Energy | 53863 | 2019 | Commercial Energy | 29557 <mark>Total</mark> | 83420 |
| 2020 | Residential Energy       | 49431 | 2020 | Commercial Energy | 20821 Total              | 70252 |
| 2021 | Residential Energy       | 46909 | 2021 | Commercial Energy | 19759 Total              | 66668 |
| 2022 | Residential Energy       | 44516 | 2022 | Commercial Energy | 18751 Total              | 63267 |
| 2023 | Residential Energy       | 42245 | 2023 | Commercial Energy | 17794 Total              | 60039 |
| 2024 | Residential Energy       | 40090 | 2024 | Commercial Energy | 16886 Total              | 56976 |
| 2025 | Residential Energy       | 38044 | 2025 | Commercial Energy | 16025 Total              | 54069 |
| 2026 | Residential Energy       | 34653 | 2026 | Commercial Energy | 14596 Total              | 49249 |
| 2027 | Residential Energy       | 31564 | 2027 | Commercial Energy | 13295 Total              | 44859 |
| 2028 | Residential Energy       | 28751 | 2028 | Commercial Energy | 12110 Total              | 40861 |
| 2029 | Residential Energy       | 26188 | 2029 | Commercial Energy | 11031 Total              | 37219 |
| 2030 | 30200 Residential Energy | 23853 | 2030 | Commercial Energy | 10047 <mark>Total</mark> | 33900 |
| 2031 | Residential Energy       | 22511 | 2031 | Commercial Energy | 9482 Total               | 31993 |
| 2032 | Residential Energy       | 21244 | 2032 | Commercial Energy | 8948 Total               | 30192 |
| 2033 | Residential Energy       | 20048 | 2033 | Commercial Energy | 8445 Total               | 28493 |
| 2034 | Residential Energy       | 18920 | 2034 | Commercial Energy | 7969 Total               | 26889 |
| 2035 | Residential Energy       | 17855 | 2035 | Commercial Energy | 7521 Total               | 25376 |
| 2036 | Residential Energy       | 15384 | 2036 | Commercial Energy | 6480 Total               | 21864 |
| 2037 | Residential Energy       | 13255 | 2037 | Commercial Energy | 5583 Total               | 18838 |
| 2038 | Residential Energy       | 11420 | 2038 | Commercial Energy | 4810 Total               | 16230 |
| 2039 | Residential Energy       | 9840  | 2039 | Commercial Energy | 4145 Total               | 13985 |
| 2040 | Residential Energy       | 8478  | 2040 | Commercial Energy | 3571 Total               | 12049 |
| 2041 | Residential Energy       | 149   | 2041 | Commercial Energy | 63 Total                 | 212   |
| 2042 | Residential Energy       | 3     | 2042 | Commercial Energy | 1 Total                  | 4     |
| 2043 | Residential Energy       | 0     | 2043 | Commercial Energy | 0 Total                  | 0     |
| 2044 | Residential Energy       | 0     | 2044 | Commercial Energy | 0 Total                  | 0     |
| 2045 | Residential Energy       | 0     | 2045 | Commercial Energy | 0 Total                  | 0     |
| 2046 | Residential Energy       | 0     | 2046 | Commercial Energy | 0 Total                  | 0     |
| 2047 | Residential Energy       | 0     | 2047 | Commercial Energy | 0 Total                  | 0     |
| 2048 | Residential Energy       | 0     | 2048 | Commercial Energy | 0 Total                  | 0     |
| 2049 | Residential Energy       | 0     | 2049 | Commercial Energy | 0 Total                  | 0     |
| 2050 | 33600 Residential Energy | 0     | 2050 | Commercial Energy | 0 <mark>Total</mark>     | 0     |

Growth Rate Source: Rayer, S., & Comfort, C. (2024). Projections of Florida Population by County 2025–2050 with Estimates for 2023. \*Florida Population Studies\*, 57(198). Bureau of Economic and Business Research, College of Liberal Arts and Sciences, University of Florida.

| Bike Ped Projections   | Reduction/Year<br>(mt CO2e) | 2030             | 2050     |
|--|-----------------------------|------------------|----------|
| Protected/separated bike lane citywide project/initiative                          | 307.72                      | 1538.6           | 7693     |
| Expansion of COJ's shared-use paths (trails) network                               | 658.7                       | 3293.5           | 16467.5  |
| E-bike Voucher Pilot Program   | 97.34                       | 486.7            | 2433.5   |
| E-bike Share (Micromobility) Program   | 439.67                      | 2198.35          | 10991.75 |
| Shower/locker facilities for government offices                                    | 35.15                       | 175.75           | 878.75   |
| Totals:<br><sup>1</sup> https://www.epa.gov/greenvehicles/greenhouse-gas-emissions |                             | 7695<br>-vehicle | 38475    |

Estimated increase in mode share: 35% rise in cyclists that now feel comfortable enough to ride to work and jobs: (1,625\*1.35)-1,625 = 569 new bike commuters

Estimated carbon/emissions reduction: 569 (new riders) \* 26 (ICE vehicle miles per week from Denver data) \* 52 (weeks per year) \* 400g (estimated C02 per vehicle mile<sup>1</sup>) = 307,715,200g = 307.72 MT of C02e reduction per year.

Estimated increase in mode share: 75% rise in cyclists that now feel comfortable enough to ride to work and jobs: (1,625\*1.75)-1,625 = 1,218 new bike commuters

Estimated carbon/emissions reduction: 1,218 (new riders) \* 26 (ICE vehicle miles per week from Denver data) \* 52 (weeks per year) \* 400g (estimated C02 per vehicle mile<sup>1</sup>) = 658,694,400 = 658.7 MT of C02e reduction per year.

Estimated increase in mode share: 180 new riders = 0.11% increase in mode share during pilot program. Estimated carbon/emissions reduction: 180 (new riders) \* 26 (ICE vehicle miles per week from Denver data) \* 52 (weeks per year) \* 400g (estimated C02 per vehicle mile<sup>1</sup>) = 97,344,000g = 97.34 MT of C02e reduction per year.

Estimated increase in mode share: 50% rise in cyclists that now feel comfortable enough to use the Ebikes to ride to work and jobs: (1,625\*1.5)-1,625 = 813 new bike commuters

Estimated carbon/emissions reduction: 813 (new riders) \* 26 (ICE vehicle miles per week from Denver data) \* 52 (weeks per year) \* 400g (estimated C02 per vehicle mile<sup>1</sup>) = 439,670,400g = 439.67 MT of C02e reduction per year.

Estimated increase in mode share: 65 staff would ride a bicycle to work if facilities were improved, based on a recent staff survey.

Estimated carbon/emissions reduction: 65 (new riders) \* 26 (ICE vehicle miles per week from Denver data) \* 52 (weeks per year) \* 400g (estimated C02 per vehicle mile<sup>1</sup>) = 35,152,000g = 35.15 MT of C02e reduction per year.

# **Clean Fuels Calculations**

|                       |            |                  |             |            |       | mtCO2e GHG R   | eductions       |                      |
|-----------------------|------------|------------------|-------------|------------|-------|----------------|-----------------|----------------------|
|                       |            |                  |             |            |       | with reccoemno | dations from As | ssumed 15% in next 5 |
|                       | Light-Duty | Light-Commercial | Medium-Duty | Heavy-Duty | Total | Master Plan    | ye              | ars (2030)           |
| City of St. Augustine |            | 123              | 35          | 5          | 35    | 198            | 12,993          | 1,948.95             |
| JEA                   |            | 403              | 401         | 83         | 240   | 1127           | 33,548          | 5,032.20             |
| JTA                   |            |                  | 127         | 263        | 22    | 412            | 43,104          | 6,465.60             |
| Nassau County         |            | 141              | 100         | 9          | 50    | 300            | 17,684          | 2,652.60             |
| St. Johns County      |            | 389              | 187         | 33         | 71    | 680            | 30,391          | 4,558.65             |
| St. Johns County      |            | 2552             | 562         | 32         | 315   | 3461           | 344,577         | 51,686.55            |
| Totals                |            | 3608             | 1412        | 425        | 733   | 6178           | 482,297         | 72,345               |

| St. Johns County            | Reduced GHG (mt CO2e) | Nassau County             | Reduced GHG (mt CO2e) | JTA                         | Reduced GHG (mt CO2e) |
|-----------------------------|-----------------------|---------------------------|-----------------------|-----------------------------|-----------------------|
| Car GAS to EV               | · · · · ·             | AMBULANCE GAS TO LPG      |                       | FREIGHT DIESEL TO B20       | 2,601                 |
| DUMP DIESEL TO B20          |                       | CAR GAS TO EV             |                       | SHUTTLE GAS TO EV           | 17,876                |
| FIRE DIESEL TO B20          |                       | DUMP DIESEL TO B20        |                       | TRANSIT DIESEL TO B20       | 22,627                |
| FREIGHT DIESEL TO B20       |                       | FIRE DIESEL TO B20        |                       | TOTAL                       | 43,104                |
| MD TRUCK GAS TO LPG         |                       | LDTRUCK GAS TO EV         | 5,229                 |                             |                       |
| REFUSE DIESEL TO DIESEL HEV |                       | MDTRUCK GAS TO LPG        | 1,204                 |                             |                       |
| STRAIGHT DIESEL TO B20      |                       | MDTRUCK D DIESEL TO EV    | 877                   |                             |                       |
| SUV GAS TO EV               |                       | SHUTTLE GAS TO EV         | 1,134                 |                             |                       |
| VAN GAS TO EV               |                       | STRAIGHT DIESEL TO B20    | 554                   |                             |                       |
| TOTAL                       | ,                     | SUV GAS TO EV             | 1,863                 |                             |                       |
|                             | ,                     | VAN GAS TO EV             | 619                   |                             |                       |
|                             |                       | TOTAL                     | 17,684                |                             |                       |
| JEA                         | Reduced GHG (mt CO2e) | City of St. Augustine     | Reduced GHG (mt CO2e) | City of Jacksonville        | Reduced GHG (mt CO2e) |
| BUCKET DIESEL TO B20        | · · · ·               | CAR GAS TO HEV            | · · · · ·             | BUCKET DIESEL TO B20        | 442                   |
| CAR GAS TO EV               | 31                    | DUMP DIESEL TO B20        | 797                   | CAR GAS TO EV               | 26,530                |
| DUMP DIESEL TO B20          | 1,858                 | FREIGHT DIESEL TO B20     | 650                   | DUMP DIESEL TO B20          | 4,713                 |
| FREIGHT DIESEL TO B20       | 2,508                 | MD TRUCK GAS TO LPG       | 669                   | FIRE DIESEL TO B20          | 15,373                |
| MD TRUCK GAS TO EV          | 3,093                 | POLICE CAR GAS TO HEV     | 299                   | FREIGHT DIESEL TO B20       | 2,230                 |
| MD TRUCK D DIESEL TO B20    | 5,728                 | POLICE SUV GAS TO EV      | 7,588                 | MD TRUCK GAS TO EV          | 45,322                |
| SHUTTLE GAS TO EV           | 441                   | SHUTTLE GAS TO EV         | 260                   | MD TRUCK D DIESEL TO EV     | 4,573                 |
| STRAIGHT DIESEL TO B20      | 3,966                 | STEP DIESEL T ODIESEL HEV | 956                   | POLICE CAR GAS TO EV        | 45,970                |
| SUV GAS TO EV               | 977                   | SUV GAS TO EV             | 308                   | POLICE SUV GAS TO EV        | 14,261                |
| VAN GAS TO EV               | 5,557                 | SWEEP DIESEL TO B20       | 807                   | REFUSE DIESEL TO DIESEL HEV | 129,140               |
| VAN D DIESEL TO EV          | 1,221                 | VAN GAS TO EV             | 575                   | SHUTTLE GAS TO EV           | 3,902                 |
| TOTAL                       | 33,548                | TOTAL                     | 12,993                | SHUTTLE D DIESEL TO EV      | 4,684                 |
|                             |                       |                           |                       | STRAIGHT DIESEL TO B20      | 1,529                 |
|                             |                       |                           |                       | SUV GAS TO EV               | 24,952                |
|                             |                       |                           |                       | SWEEPER DIESEL TO B20       | 1,883                 |
|                             |                       |                           |                       | VAN GAS TO EV               | 19,073                |
|                             |                       |                           |                       | TOTAL                       | 344,577               |

| Fleet                       | Fleet Abbreviation |
|-----------------------------|--------------------|
| City of St. Augustine       | CSA                |
| JEA                         | JEA                |
| JTA                         | JTA                |
| Nassau County               | NAC                |
| St. Johns County            | SJC                |
| Duval County Public Schools | DCPS               |

## **Clean Fuels Calculations**

City of Jacksonville COJ

#### Goals

Reduce Greenhouse Gas Emissions (GHG) by 20% per year.

Increase petroleum displacement (GGE) by more than 15% per year, on average, by 2027.

Collectively, these opportunities could result in a net benefit exceeding \$104 million and potentially displace 14 million gallons of gas or diesel and reduce GHG emissions by 314 thousand mtCO2e.

Reference: https://northfloridatpo.com/uploads/Clean-Fuels-Master-Plan-Report\_Final\_240209.pdf

## JAXPORT Green Cooridor

metric ton/short ton

0.90718

|           |               | Doduction por Unit            |        |               | 20                 | 30             | 20                 | 50             |
|-----------|---------------|-------------------------------|--------|---------------|--------------------|----------------|--------------------|----------------|
|           |               | Reduction per Unit,<br>mtCO2e | number | adoption rate | vehicles converted | GHG reduction, | vehicles converted | GHG reduction, |
|           |               | IIICOZE                       |        |               | venicies converteu | annually       | venicies converted | annually       |
| Phase 1 + | + Phase 2     | 109                           | 135    | 15%           | 75                 | 8186           | 135                | 14715          |
| Phase 3   | UTR           | 37                            | 2      | 15%           | 1                  | 41             | 2                  | 73             |
| Flidses   | Local Drayage | 52                            | 4      | 15%           | 2                  | 115            | 4                  | 206            |
| Phase 4 + | + Phase 5     | 2000                          | 10     | 15%           | 6                  | 11126          | 10                 | 19163          |

## Nassau County Land Development

| 2019 Nassau County Land Types | Land Area,<br>hectares | Carbon uptake average,<br>mtCO <sub>2</sub> / ha / yr |
|-------------------------------|------------------------|---|
| Agriculture and Forestry      | 77336                  | 0.5   |
| Natural Areas                 | 73924                  | 0.1   |
| Developed or Urban Land Uses  | 20630                  |   |

|      | Nassau<br>Population |
|------|----------------------|
| 2019 | 88625                |
| 2030 | 116600               |
| 2050 | 145800               |

|                      | Land Area, |                              | 2030 Land Area, | Annual GHG      | 25 year land     | 2050 Land Area, | Annual GHG      |
|----------------------|------------|------------------------------|-----------------|-----------------|------------------|-----------------|-----------------|
|                      | hectares   | 5 year land acquisition rate | hectares        | reduced, mtCO2e | acquisition rate | hectares        | reduced, mtCO2e |
| Agriculture Forestry | 77336      | 2.58612E-05                  | 77338           | 38669           | 6.98252E-05      | 77341           | 38671           |

|                        | Land Area,<br>hectares | 2030 Land Recategorized to Developed Land | 2030 Population |          | Annual GHG<br>reduced. mtCO2e | 2050 Population |       | Annual GHG<br>reduced, mtCO2e |
|------------------------|------------------------|---|-----------------|----------|-------------------------------|-----------------|-------|-------------------------------|
| Natural Areas          | 73924                  |   |                 |          |                               |                 |       |                               |
| Developed / Urban Land | 20630                  |   |                 | 20640.44 |                               |                 | 20649 |                               |

Growth Rate Source: Rayer, S., & Comfort, C. (2024). Projections of Florida Population by County 2025–2050 with Estimates for 2023. \*Florida Population Studies\*, 57(198). Bureau of Economic and Business Research, College of Liberal Arts and Sciences, University of Florida.

20210111-CLAM\_Final\_Word (nassaucountyfl.com)

|                         | 10/13/2023                      |            |
|-------------------------|---------------------------------|------------|
| Average Daily kWh Usage | High Rainfall kWh Usage (10/13) | Difference |
| 608.34                  | 2,058.10                        | 1,449.76   |
| 306.49                  | 534.72                          | 228.23     |
| 125.4                   | 321.56                          | 196.16     |
| 317.12                  | 888.37                          | 571.25     |
| 493.79                  | 1,885.75                        | 1,391.96   |
|                         | 1,137.70                        | 767.47     |

| Station | Rainfall Amount (inches) | Dates              | Pump Station      | kWh      | Cost     |          |
|---------|--------------------------|--------------------|-------------------|----------|----------|----------|
|         |                          |                    | Wetwell Levels    |          |          |          |
| Master  | 0                        | 10/10              | Normal            | 469.29   | \$60.53  | 0.187716 |
| Pump    | 0.34                     | 10/11              | Normal            | 646.6    | \$82.99  | 0.25864  |
| Station |                          |                    |                   |          |          |          |
|         | 2.75                     | <mark>10/12</mark> | Wet Well Full     | 1,887.36 | \$240.16 | 0.754944 |
| 24-2    |                          |                    |                   |          |          |          |
|         | 0.01                     | <mark>10/13</mark> | Wet Well Full     | 2,085.10 | \$265.21 | 0.83404  |
|         | 0                        | <mark>10/14</mark> | Starting to cycle | 1,335.93 | \$170.31 | 0.534372 |
|         | 0                        | 10/15              | Normal            | 1,199.77 | \$153.06 | 0.479908 |
|         | 0                        | 10/16              | Normal            | 872.20   | \$111.57 | 0.34888  |
|         | 0                        | 10/17              | Normal            | 736.19   | \$94.34  | 0.294476 |
|         | 0                        | 10/18              | Normal            | 709.92   | \$91.01  | 0.283968 |

### Rainfall NOAA DATA 2023

| Naimaii NOAA DATA 2023 |                                    |   |
|------------------------|------------------------------------|---|
| Month (2023)           | Number of days >/= 1" of rainfaill |   |
| January                |                                    | 0 |
| February               |                                    | 1 |
| March                  |                                    | 3 |
| April                  |                                    | 5 |
| May                    |                                    | 3 |
| June                   |                                    | 6 |
| July                   |                                    | 5 |
| August                 |                                    | 5 |
| September              |                                    | 6 |
| October                |                                    | 2 |
| November               |                                    | 2 |
| December               |                                    | 1 |
|                        |                                    |   |

Total **39** w/an average of 3 days of elevated energy per high rainfall event =

| The 5 Master Pump Station Plant | Average KWH/Day Per Year | MT CO2e (Base) | MT CO2e (Spike) | MT CO2e (Difference) AKA GHG Reduction | MT CO2e Reduction Per YR | MT CO2e in 2030 | MT CO2e in 2050 |
|---------------------------------|--------------------------|----------------|-----------------|--|--------------------------|-----------------|-----------------|
| 122 Universal Trail             | 307                      | ,              |                 |  |                          |                 |                 |
| 21 Florida Park                 | 317                      | ,              |                 |  |                          |                 |                 |
| 215 Pritchard Dr.               | 608                      |                |                 |  |                          |                 |                 |
| 56 Peninsula Ln.                | 126                      | 5              |                 |  |                          |                 |                 |
| 58 Round Tree Dr.               | 494                      |                |                 |  |                          |                 |                 |
| Average                         | 370                      | 0.15           | 0.46            | 0.31                                   | 35.91                    | 215.49          | 933.            |

Conversion factor KWH

MT CO2

Average Days w/Elevated Energy per Year

117

#### Enter data:

| ž ·          | wered passenger vehicles (j)<br>Irs avoided (j)<br>Irs used (j)<br>ral gas | Amount<br>1 |
|--------------|--|-------------|
| Convert data | Clear Fields   |             |

## Step 2 - View results

0.0004 Metric Tons → of Carbon Dioxide (CO<sub>2</sub>) equivalent

#### <u>City of Jacksonville Solid Waste GHG Reduction Calculations:</u>

| Mixed MSW Emissions Factor <sup>1</sup>                | 0.0648              | MT CH4/wet ton of mixed waste             |       |            |
|--|---------------------|---|-------|------------|
| Composting GHG Emissions Reduction Factor <sup>2</sup> | 0.3                 | MT CO2e/wet ton of organic waste          |       |            |
| Mixed MSW LFG Capture Rate <sup>1</sup>                | 60%                 |   |       |            |
| Landfilled Mixed MSW <sup>3</sup>                      | 1,182,079           | 9 wet tons/year                           |       |            |
| Yard Waste Collected <sup>3</sup>                      | 274,590             | wet tons/year                             |       |            |
| Food Waste Collected <sup>3</sup>                      | 123,939             | wet tons                                  |       |            |
| Methane to CO2 Conversion <sup>4</sup>                 | 1:28                | MT CO2e/MT CH4                            |       |            |
| Home Energy Use (2021) <sup>5</sup> 12,154 KWh/hom     | ne                  |   |       |            |
| 216,000 MCF CH4 generates 8,500,000 KWh <sup>6</sup>   | eia                 |   |       |            |
| 1 MT CH4 = 1 kg = 49,268                               | CF CH4 <sup>7</sup> | aqua-calc.com                             |       |            |
| Therefore Energy Generated by CH4 = (8,500,000 kWh     | / 216,000,          | .000 CF CH4) x (49,268 CF CH4 / MT CH4) = | 1,939 | KWh/MT CH4 |

|            | Rate | Average Annual CO2e<br>Reduction from Composting<br>(MT CO2e) | Total CO2e Reduction from<br>Composting by 2030<br>(MT CO2e) | Total CO2e Reduction from<br>Composting by 2050<br>(MT CO2e) |  |
|------------|------|---|--|--|--|
|            | 10%  | 11,953  | 71,717   | 310,773  |  |
| Composting | 30%  | 35,840  | 215,040  | 931,842  |  |
|            | 50%  | 59,703  | 358,217  | 1,552,274  |  |

|                              | Rate | Average Annual<br>Methane Captured<br>(MT CH4) | Average Annual<br>Methane Captured<br>(MT CO2e) | Total CO2e Captured<br>for Combustion by<br>2030 (MT CO2e) | Total CO2e Captured<br>for Combustion by<br>2050 (MT CO2e) | Amount of Homes<br>Provided Energy each<br>Year by Captured<br>Methane (ea.) |
|------------------------------|------|--|---|--|--|--|
| Methane Capture & Combustion | 60%  | 12,873   | 360,444   | 1,802,220  | 9,011,100  | 2,053  |

Reference 1: ClearPath Application, ICLEI, 2024.

Reference 2: "Calculation of the Lifecycle Greenhouse Gas Emissions Reduction Benchmark for the Organice Waste Reductions Regulation", California Air Resources Board, January 2022.

Reference 3: "Florida DEP County Reports: Duval County Report", FDEP, 2019.

Reference 4: "Global Warming Potential Values", Greenhouse Gas Protocol, ghgprotocol.org, February 16, 2016.

Reference 5: "Greenhouse Gases Equivalencies Calculator - Calculations and References", www.epa.gov, January 31, 2024.

Reference 6: "Biomass explained: Landfill gas and biogas", www.eia.gov, December 15, 2023.

Reference 7: "Calculate weight of compounds and materials per volume: Methane, gas", www.aqua-calc.com, 2024.

#### **City of Atlantic Beach Solid Waste GHG Reduction Calculations:**

| Composting GHG Emissions Reduction Factor <sup>1</sup>           | 0.3     | MT CO2e/wet short ton of organic waste |
|--|---------|--|
| City of Atlantic Beach Population <sup>2</sup>                   | 13,513  | capita                                 |
| Duval County Population <sup>3</sup>                             | 970,672 | capita                                 |
| Food Waste Collected in Duval <sup>4</sup>                       | 123,939 | wet tons/year                          |
| Food Waste Produced per Capita per Year                          | 255     | pounds/capita/year                     |
| Amount of Restaurants <sup>5</sup>                               | 67      | each                                   |
| Average Food Waste Produced per Year per Restaurant <sup>6</sup> | 25      | wet tons                               |

|            | Rate | Average Annual<br>CO2e Reduction<br>from Composting<br>(MT CO2e) | Total CO2e<br>Reduction from<br>Composting by 2030<br>(MT CO2e) | Total CO2e<br>Reduction from<br>Composting by 2050<br>(MT CO2e) |
|------------|------|--|---|---|
|            | 10%  | 102  | 612   | 2,652   |
| Composting | 30%  | 306  | 1,836   | 7,957   |
|            | 50%  | 510  | 3,060   | 13,262  |

Reference 1: "Calculation of the Lifecycle Greenhouse Gas Emissions Reduction Benchmark for the Organice Waste Reductions Regulation", California Air Resources Board, January 2022.

Reference 2: "U.S. Census Bureau QuickFacts: Atlantic Beach city, Florida", City of St Augustine, January 8, 2024.

Reference 3: "U.S. Census Bureau QuickFacts: Duval County, Florida", City of St Augustine, July 1, 2023.

Reference 4: "Florida DEP County Reports: Duval County Report", FDEP, 2019.

Reference 5: "The Real Yellow Pages", www.yellowpages.com, 2024.

Reference 6: "Food waste in restarants: What we know", Fourth.com, May 2, 2023.

#### City of St. Augustine Solid Waste GHG Reduction Calculations:

| Composting GHG Emissions Reduction Factor <sup>1</sup>           | 0.3  | MT CO2e/wet short ton of organic waste |
|--|------|--|
| Amount of Restaurants <sup>2</sup>                               | 188  | each                                   |
| Average Food Waste Produced per Year per Restaurant <sup>3</sup> | 25.0 | wet tons/year                          |

|            | Rate | Average Annual<br>CO2e Reduction<br>from Composting<br>(MT CO2e) | Total CO2e<br>Reduction from<br>Composting by 2030<br>(MT CO2e) | Total CO2e<br>Reduction from<br>Composting by 2050<br>(MT CO2e) |
|------------|------|--|---|---|
|            | 10%  | 141  | 846   | 3,666   |
| Composting | 30%  | 423  | 2,538   | 10,998  |
|            | 50%  | 705  | 4,230   | 18,330  |

Reference 1: "Calculation of the Lifecycle Greenhouse Gas Emissions Reduction Benchmark for the Organice Waste Reductions Regulation", California Air Resources Board, January 2022.

Reference 2: "Jacksonville MSA Technical Survey", City of St Augustine, January 8, 2024.

Reference 3: "Food waste in restarants: What we know", Fourth.com, May 2, 2023.

| Category  | Type of<br>Burden          | Disadvantaged<br>Threshold(s)   | Description  |
|---|----------------------------|---|--|
| Expected<br>agriculture loss<br>rate<br>ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income |                            | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile                   | Expected agricultural value at risk from losses due to fourteen types of<br>natural hazards. These hazards have some link to climate change. They<br>are: avalanche, coastal flooding, cold wave, drought, hail, heat wave,<br>hurricane, ice storm, landslide, riverine flooding, strong wind, tornado,<br>wildfire, and winter weather. The rate is calculated by dividing the<br>agricultural value at risk by the total agricultural value. Source: FEMA<br>and <u>National Risk Index</u> from 2014-2021  |
| Expected<br>building loss<br>rate<br>Climate<br>change<br>Expected<br>population loss<br>rate<br>Projected flood<br>risk                    | building loss              | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Expected building value at risk from losses due to fourteen types of<br>natural hazards. These hazards have some link to climate change. They<br>are: avalanche, coastal flooding, cold wave, drought, hail, heat wave,<br>hurricane, ice storm, landslide, riverine flooding, strong wind, tornado,<br>wildfire, and winter weather. The rate is calculated by dividing the<br>building value at risk by the total building value. Source: FEMA and<br><u>National Risk Index</u> from 2014-2021  |
|   | population loss            | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Expected fatalities and injuries due to fourteen types of natural hazards<br>each year. These hazards have some link to climate change. They are:<br>avalanche, coastal flooding, cold wave, drought, hail, heat wave,<br>hurricane, ice storm, landslide, riverine flooding, strong wind, tornado,<br>wildfire, and winter weather. Population loss is defined by the Spatial<br>Hazard Events and Losses and National Centers for Environmental<br>Information's (NCEI). It reports the number of fatalities and injuries<br>caused by the hazard. An injury is counted as one-tenth (1/10) of a<br>fatality. The NCEI Storm Events Database classifies both direct and<br>indirect injuries. Both types are counted as population loss. The total<br>number is divided by the population in the census tract to get the<br>population loss rate. Source: FEMA and <u>National Risk Index</u> from 2014-<br>2021 |
|   |                            | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | A high precision, climate-adjusted model that projects flood risk for<br>properties in the future. The dataset calculates how many properties are<br>at risk of floods occurring in the next thirty years from tides, rain,<br>riverine and storm surges, or a 26% risk total over the 30-year time<br>horizon. The risk is defined as an annualized 1% chance. The tool<br>calculates tract-level risk as the share of properties meeting the risk<br>threshold. The risk does not consider property value. Source: First Street<br>Foundation and <u>Climate Risk Data Access</u> from 2022  |
|   | Projected<br>wildfire risk | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | A 30-meter resolution model projecting the wildfire exposure for any specific location in the contiguous U.S., today and with future climate change. The risk of wildfire is calculated from inputs associated with fire fuels, weather, human influence, and fire movement. The risk does not consider property value. Source: First Street Foundation and <u>Climate Risk</u> <u>Data Access</u> from 2022   |

#### Categories, burdens, thresholds and descriptions in the Climate and Economic Justice Screening Tool (CEJST)

|          | Type of | Disadvantaged |             |
|----------|---------|---------------|-------------|
| Category | Burden  | Threshold(s)  | Description |

|        | ARE at or above the 90th<br>Energy percentile AND are at or<br>cost/burden above the 65th percentile<br>for low income |   | Average household annual energy cost in dollars divided by the average<br>household income. Source: Department of Energy (DOE) and <u>LEAD Tool</u><br>from 2018   |  |
|--------|--|---|--|--|
| Energy | Particulate<br>matter 2.5 in<br>the air  | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Fine inhalable particles with 2.5 or smaller micrometer diameters. The<br>percentile is the weight of the particles per cubic meter. Source:<br>Environmental Protection Agency (EPA) Office of Air and Radiation (OAR).<br><i>Source:</i> Fusion of model and monitor data from 2017 as compiled by<br>EPA's EJScreen, sourced from EPA National Air Toxics Assessment (NATA)<br>and the U.S. Department of Transportation (DOT) traffic data |  |

|          | Type of                  | Disadvantaged             |  |  |  |
|----------|--------------------------|---------------------------|--|--|--|
| Category | Burden                   | Threshold(s)              | Description  |  |  |
|          |                          | ARE at or above the 90th  | Share of people who answer "yes" to both of these questions: "Have you           |  |  |
|          | Asthma                   | percentile AND are at or  | ever been told by a health professional that you have asthma?" and "Do           |  |  |
|          | Asiiiiiu                 | above the 65th percentile | you still have asthma?". Source: Centers for Disease Control and                 |  |  |
| Health   |                          | for low income            | Prevention (CDC) and <u>PLACES data</u> from 2016-2019                           |  |  |
|          |                          | ARE at or above the 90th  | Share of people ages 18 years and older who have been told by a health           |  |  |
|          | Diabetes                 | percentile AND are at or  | professional that they have diabetes other than diabetes during                  |  |  |
|          | Dignetes                 | above the 65th percentile | pregnancy. Source: Centers for Disease Control and Prevention (CDC) and          |  |  |
|          | for low income           |                           | PLACES data from 2016-2019   |  |  |
|          | ARE at or above the 90th |                           | Share of people ages 18 years and older who have been told by a health           |  |  |
|          | Heart Disease            | percentile AND are at or  | professional that they had angina or coronary heart disease. Source:             |  |  |
|          | IIEUII DISEUSE           | above the 65th percentile | Centers for Disease Control and Prevention (CDC) and <u>PLACES data</u> from     |  |  |
|          |                          | for low income            | 2016-2019  |  |  |
|          |                          |                           | Average number of years people have left in their lives.                         |  |  |
|          |                          | ARE at or above the 90th  | Note: The tool reverses the percentiles for this burden. This means that         |  |  |
|          | Low Life                 | percentile AND are at or  | census tracts with lower numbers have higher life expectancies and that          |  |  |
|          | Expectancy               | above the 65th percentile | census tracts with higher numbers have lower life expectancies. Source:          |  |  |
|          |                          | for low income            | Centers for Disease Control and Prevention (CDC) and <u>U.S. Small-Area Life</u> |  |  |
|          |                          |                           | Expectancy Estimates Project (USALEEP) from 2010-2015                            |  |  |

| Category | Type of<br>Burden           | Disadvantaged<br>Threshold(s)   | Description   |
|----------|-----------------------------|---|---|
| Caregory | Historic<br>underinvestment | Experienced<br>underinvestment AND are<br>at or above the 65th<br>percentile for low income         | Census tracts that experienced historic underinvestment based on<br>redlining maps created by the federal government's Home Owners'<br>Loan Corporation (HOLC) between 1935 and 1940. The tool uses the<br>National Community Reinvestment Coalition's <u>methodology</u> for<br>converting boundaries in the HOLC maps to census tracts. Census tracts<br>meet the threshold when they have a score of 3.25 or more out of 4.<br>Source: National Community Reinvestment Coalition (NCRC) and <u>dataset</u><br><u>of formerly redlined areas</u> using digitized maps from the Home Owners<br>Loan Corporation (HOLC), using 2010 census boundaries |
| Housing  | Housing costs               | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Share of households that are both earning less than 80% of Housing and<br>Urban Development's Area Median Family Income and are spending<br>more than 30% of their income on housing costs. Source: Department of<br>Housing and Urban Development (HUD) and <u>Comprehensive Housing</u><br><u>Affordability Strategy dataset</u> from 2014-2018   |
|          | Lack of green<br>space      | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Share of land with developed surfaces covered with artificial materials<br>like concrete or pavement, excluding crop land used for agricultural<br>purposes. Places that lack green space are also known as nature-<br>deprived. Source: Data from <u>Multi-Resolution Land Characteristics</u> (MRLC)<br>consortium; data analysis provided by <u>The Trust for Public Lands</u> and   |

|                            |   | <u>American Forests</u> and <u>Percent Developed Imperviousness</u> (CONUS) from 2019  |
|----------------------------|---|--|
| Lack of indoor<br>plumbing | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Housing without indoor kitchen facilities or complete plumbing facilities.<br>Source: Department of Housing and Urban Development (HUD) and<br><u>Comprehensive Housing Affordability Strategy dataset</u> from 2014-2018  |
| Lead paint                 | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Share of homes built before 1960, which indicates potential lead paint<br>exposure. Tracts with extremely high home values (i.e. median home<br>values above the 90th percentile) that are less likely to face health risks<br>from lead paint exposure are not included. Source: U.S. Census and<br><u>American Community Survey</u> from 2015-2019 |

| Category            | Type of<br>Burden  | Disadvantaged<br>Threshold(s)   | Description  |  |  |
|---------------------|--|---|--|--|--|
|                     | Abandoned<br>mine land   | At least one AND are at or<br>above the 65th percentile<br>for low income                           | Presence of an abandoned mine left by legacy coal mining operations.<br>Source: Department of the Interior (DOI) and <u>Abandoned Mine Land</u><br><u>Inventory System (e-AMLIS)</u> from 2017   |  |  |
|                     | Formerly used<br>Defense sites                                   | At least one AND are at or<br>above the 65th percentile<br>for low income                           | Properties that were owned, leased, or possessed by the United States,<br>under the jurisdiction of the Secretary of Defense prior to October 1986.<br>Source: U.S. Army Corps of Engineers and <u>Formerly Used Defense Sites</u><br>(FUDS) from 2019   |  |  |
| Legacy<br>Pollution | Proximity to<br>hazardous<br>waste facilities                    | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Number of hazardous waste facilities (Treatment, Storage, and Disposal<br>Facilities and Large Quantity Generators) within 5 kilometers (or nearest<br>beyond 5 kilometers), each divided by distance in kilometers. Source:<br>Environmental Protection Agency (EPA) and <u>Treatment, Storage, and</u><br><u>Disposal Facilities (TSDF) data</u> from 2020 calculated from EPA's RCRA<br>database as compiled by EPA's EJScreen    |  |  |
|                     | Proximity to<br>Superfund sites<br>(National<br>Priorities List) | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Number of proposed or listed Superfund or National Priorities list (NPL)<br>sites within 5 kilometers (or nearest one beyond 5 kilometers), each<br>divided by distance in kilometers. Source: Environmental Protection<br>Agency (EPA) and <u>CERCLIS database</u> from 2020 as compiled by EPA's<br>EJScreen   |  |  |
|                     | Proximity to<br>Risk<br>Management<br>Plan (RMP)<br>facilities   | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Count of Risk Management Plan (RMP) facilities within 5 kilometers (or<br>nearest one beyond 5 kilometers), each divided by distance in<br>kilometers. These facilities are mandated by the Clean Air Act to file<br>RMPs because they handle substances with significant environmental and<br>public health risks. Source: Environmental Protection Agency (EPA) and<br><u>RMP database</u> from 2020 as compiled by EPA's EJScreen |  |  |

| Category       | Type of<br>Burden                           | Disadvantaged<br>Threshold(s)   | Description  |
|----------------|---|---|--|
| Transportation | Diesel<br>particulate<br>matter<br>exposure | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Mixture of particles in diesel exhaust in the air, measured as<br>micrograms per cubic meter. Source: Environmental Protection Agency<br>(EPA) and <u>National Air Toxics Assessment (NATA)</u> from 2014 as compiled<br>by EPA's EJScreen |
|                | Transportation<br>Barriers                  | ARE at or above the 90th<br>percentile AND are at or  | Average relative cost and time spent on transportation relative to all other tracts. Note: this burden only applies for census tracts with   |

|                                    | above the 65th percentile<br>for low income   | populations greater than 20 people. Source: Department of<br>Transportation (DOT) and <u>Transportation access disadvantage</u> from 2022  |
|------------------------------------|---|--|
| Traffic<br>proximity and<br>volume | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Number of vehicles (average annual daily traffic) at major roads within<br>500 meters, divided by distance in meters. Source: Department of<br>Transportation (DOT) and <u>Traffic data</u> from 2017 as compiled by EPA's<br>EJScreen |

| Category   | Type of<br>Burden                            | Disadvantaged<br>Threshold(s)   | Description   |
|------------|--|---|---|
| Water and  | Underground<br>storage tanks<br>and releases |   | Weighted formula of the density of leaking underground storage tanks<br>and the number of all active underground storage tanks within 1,500 feet<br>of the census tract boundaries. Source: Environmental Protection Agency<br>(EPA) and calculated from EPA's <u>UST Finder</u> from 2021 as compiled by<br>EPA's EJScreen |
| Wastewater | Wastewater<br>discharge                      | ARE at or above the 90th<br>percentile AND are at or<br>above the 65th percentile<br>for low income | Risk-Screening Environmental Indicators (RSEI) modeled toxic<br>concentrations at stream segments within 500 meters, divided by<br>distance in kilometers. Source: Environmental Protection Agency (EPA)<br>and <u>Risk-Screening Environmental Indicators (RSEI) model</u> from 2020 as<br>compiled by EPA's EJScreen      |

| Category    | Type of<br>Burden       | Disadvantaged<br>Threshold(s)  | Description  |  |
|-------------|-------------------------|--|--|--|
|             | Lingvistic<br>isolation | ARE at or above the 90th<br>percentile AND more than<br>10% of people ages 25<br>years or older whose high<br>school education is less<br>than a high school diploma | Share of households where no one over age 14 speaks English very well.<br>Source: U.S. Census and <u>American Community Survey</u> from 2015-2019  |  |
| Workforce   | Low median<br>income    | ARE at or above the 90th<br>percentile AND more than<br>10% of people ages 25<br>years or older whose high<br>school education is less<br>than a high school diploma | Low median income calculated as a share of the area's median income.<br>Note: The tool reverses the percentiles for this burden. This means that<br>census tracts with lower numbers have higher median incomes and<br>census tracts with the higher numbers have lower median incomes.<br>Source: U.S. Census and <u>American Community Survey</u> from 2015-2019 |  |
| Development | Poverty                 | ARE at or above the 90th<br>percentile AND more than<br>10% of people ages 25<br>years or older whose high<br>school education is less<br>than a high school diploma | Share of people living at or below 100% of the Federal poverty level.<br>Source: U.S. Census and <u>American Community Survey</u> from 2015-2019   |  |
|             | Unemployment<br>rate    | ARE at or above the 90th<br>percentile AND more than<br>10% of people ages 25<br>years or older whose high<br>school education is less<br>than a high school diploma | Number of unemployed people as a share of the labor force. Source: U.S.<br>Census and <u>American Community Survey</u> from 2015-2019  |  |

| Complete List of CEJST Disadvantag | ed Burdens Sc | rted by Number | r of People Affec | cted |
|------------------------------------|---------------|----------------|-------------------|------|
| Number of<br>LIDACs /              |               |                |                   |      |

| Burden  | LIDACs /<br>Frequency of<br>Burden (90th &<br>low income/HS) | Number<br>of People<br>Affected | Location / Number<br>of Census Tracts<br>Impacted                        | Proposed Measure(s)   |
|---|--|---------------------------------|--|---|
| Underground<br>storage tanks<br>and releases                            | 45   | 175,273                         | 1 Clay, 44 Duval   | NA  |
| Low Life<br>Expectancy  | 41   | 163,236                         | 39 Duval; 1 Palm<br>Coast; 1 Clay  | All proposed measures   |
| Proximity to Risk<br>Management<br>Plan (RMP)<br>facilities             | 40   | 150,280                         | 39 Duval; 1 St. Johns  | Potentially Landfill Gas Recovery   |
| Projected Fire<br>Risk  | 20   | 132,019                         | 4 Clay, 11 Duval, 5<br>Palm Coast  | All proposed measures as they potentially will indirectly help slow down and reduce severity of acute weather events  |
| Heart Disease   | 28   | 109,445                         | 23 Duval; 3 Palm<br>Coast; 1 Clay; 1 St.<br>Johns                        | Bike/Pedestrian programs; Mode shift  |
| Diabetes  | 29   | 106,400                         | 28 Duval; 1 Palm<br>Coast  | Bike/Pedestrian programs; Mode shift  |
| Poximity to<br>Superfund sites<br>(National<br>Priorities List<br>(NPL) | 30   | 101,594                         | 30 Duval   | NA  |
| Low median<br>income  | 26   | 98,578                          | 26 Duval   | Potentially energy efficiency and solar for buildings;<br>Bike/Pedestrian programs; Mass transit expansion;<br>Mode shift; Workforce development tied to measure<br>implementation      |
| Asthma  | 23   | 82,706                          | 23 Duval   | Increase in renewable energy for electrical grid;<br>Energy efficiency and solar for buildings; EV fleet<br>transition; Bike/Pedestrian programs; Mass transit<br>expansion; Mode shift |
| Travel Barriers   | 12   | 68,700                          | 1 Baker, 6 Clay, 1<br>Duval, 1 Nassau, 2<br>Palm Coast, & 1 St.<br>Johns | EV fleet transition; Bike/Pedestrian programs; Mass<br>transit expansion; Mode shift  |
| Unemployment  | 18   | 66,962                          | 18 Duval   | Workforce development and training tied to measure implementation   |
| Poverty   | 18   | 63,163                          | 1 Clay, 17 Duval   | Potentially energy efficiency and solar for buildings;<br>Bike/Pedestrian programs; Mass transit expansion;<br>Mode shift; Workforce development tied to measure<br>implementation      |

| Housing<br>cost/burden  | 17 | 61,149 | 16 Duval, 1 St. Johns  | Potentially Energy efficiency and solar for buildings   |
|---|----|--------|--|---|
| Projected Flood<br>Risk   | 10 | 50,026 | 3 Duval, 5 Palm<br>Coast, 2 St. Johns                            | All proposed measures as they potentially will<br>indirectly help slow down and reduce severity of<br>acute weather events  |
| Energy<br>Burden/Costs  | 15 | 49,784 | 15 Duval   | Energy efficiency and solar for buildings   |
| Historic<br>Underinvestment   | 14 | 46,479 | 14 Duval   | Energy efficiency and solar for buildings; EV fleet<br>transition; Bike/Pedestrian programs; Mass transit<br>expansion; Mode shift  |
| Expected<br>Building Loss   | 3  | 38,062 | 2 Flagler, 1 St. Johns   | All proposed measures as they potentially will indirectly help slow down and reduce severity of acute weather events  |
| Traffic Proximity<br>& Volume   | 12 | 37,826 | 12 Duval   | EV fleet transition; Bike/Pedestrian programs; Mass<br>transit expansion; Mode shift  |
| Diesel PM<br>Exposure   | 10 | 36,594 | 10 Duval   | EV fleet transition; Bike/Pedestrian programs; Mass<br>transit expansion; Mode shift  |
| Wastewater<br>discharge   | 10 | 34,409 | 10 Duval   | Wastewater treatment efficiency upgrades will slow down infiltration and discharge  |
| Formerly Used<br>Defense Sites  | 5  | 31,459 | 3 Clay, 1 Duval, 1<br>Palm Coast                                 | NA  |
| Education less<br>than a high<br>school diploma<br>(25 years or<br>older) | 7  | 20,222 | 7 Duval  | Workforce development and training tied to measure<br>implementation  |
| Linguistic<br>isolation   | 3  | 18,646 | 3 Duval  | Intentional outreach with sensitivity to linguistic needs   |
| Expected<br>Population Loss   | 4  | 16,001 | 4 Duval  | All proposed measures as they potentially will<br>indirectly help slow down and reduce severity of<br>acute weather events  |
| Lead paint  | 4  | 11,333 | 4 Duval  | NA  |
| PM 2.5 in the Air   | 0  | 0      | None in 90th<br>percentile                                       | Increase in renewable energy for electrical grid;<br>Energy efficiency and solar for buildings; EV fleet<br>transition; Bike/Pedestrian programs; Mass transit<br>expansion; Mode shift |
| Expected<br>Agriculture Loss  | 0  | 0      | None in 90th<br>percentile                                       | NA  |
| Lack of green<br>space  | 0  | 0      | None in 90th<br>percentile and low<br>income; 89th<br>percentile | Potentially Preservation and Expansion of Forest  |
| Lack of indoor<br>plumbing  | NA | 0      | Not enough data  | NA  |

| Abandoned mine<br>land                        | 0 | 0 | No abandoned mine<br>land in NE FL MSA | NA |
|---|---|---|--|----|
| Proximity to<br>hazardous waste<br>facilities | 0 | 0 | None in 90th<br>percentile             | NA |

# Complete List of LIDAC Census Tracts in NE FL MSA by Measure and by Burden

## All 91 LIDAC Census Tracts in NE FL MSA

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 1203100200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 1203101402, 1203101500, 12031010700, 1203101800, 1203101900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031014200, 12031016300, 12031015400, 12031016727, 12031017200, 12031017400, 12089050503, 12035060104, 12035060204

#### <u>BY MEASURE</u>

### ELECTRICAL GRID MEASURE: INCREASE CLEAN ENERGY — MSA WIDE

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 1203100200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 1203101700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12035060104, 12035060204, 12035060206, 12035060207, 12035060208, 12035060209, 12035060210, 12035060212, 12035060213, 12035060214, 12109020300, 12109021003, 12109021101

## BUILDING MEASURE: RESIDENTIAL ENERGY AUDIT & EFFICIENCY TOOLKIT - MSA Wide

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 1203100200, 1203100300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 1203101700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12035060104, 12035060204, 12035060206, 12035060207, 12035060208, 12035060209, 12035060210, 12035060212, 12035060213, 12035060214, 12109020300, 12109021003, 12109021101

## BUILDING MEASURE: HIGH PERFORMING CENTERS TO BUILD COMMUNITY RESILIENCY - MSA Wide

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 1203100200, 1203100300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 1203101304, 12031010401, 12031010402, 1203101500, 1203101700, 1203101800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031014311, 12031015200, 12031015300, 12031015400, 12031016727, 12031017200, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12035060104, 12035060204, 12035060206, 12035060207, 12035060208, 12035060209, 12035060210, 12035060212, 12035060213, 12035060214, 12109020300, 12109021003, 12109021101

## BUILDING MEASURE: COMMERCIAL SOLAR - MSA Wide

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 1203100200, 1203100300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089055053, 12035060104, 12035060204, 120921003, 12109021101

#### BUILDING MEASURE: MUNICIPAL BUILT ENVIRONMENT DECARBONIZATION — 3 Cities: COJ, COAB & COSA

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12109021003, 12109020300

TRANSPORTATION MEASURE: NORTH FLORIDA TPO'S CLEAN FUELS INITIATIVE - 3 Counties: Duval, Nassau & St. Johns

1203100100, 1203100200, 1203100300, 1203100600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 1203101402, 1203101500, 1203101700, 1203101800, 1203101900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12109020300, 12109021003, 12109021101

# TRANSPORTATION MEASURE: MASS TRANSIT EXPANSION - 5 Counties: Baker, Clay, Duval, Nassau & St. Johns

12003040201, 12019030102, 12019030103, 12019030104, 12019030400, 12019031104, 12019031105, 12019031106, 1203100100, 1203100200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 1210902300, 12109021003, 12109021101

# TRANSPORTATION MEASURE: BICYCLE-PEDESTRIAN PROGRAMS — City of Jacksonville

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400

TRANSPORTATION MEASURE: EV FLEET TRANSITION -- Nassau County, City of St. Augustine, City of Jacksonville, City of Atlantic Beach, Duval County Public School District

1203100100, 1203100200, 1203100300, 1203100600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 1203101402, 1203101500, 12031010700, 1203101800, 1203101900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503, 12109021003, 12109020300

# INDUSTRY MEASURE: REDUCE MARITIME SECTOR EMISSIONS - 2 Counties: Duval & Nassau

1203100100, 1203100200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12089050503

## AFOLU MEASURE: PRESERVE AND EXPAND FOREST - Nassau County

12089050503

WASTE & MATERIALS MANAGEMENT MEASURE: WASTEWATER TREATMENT EFFICIENCY UPGRADES — City of Palm Coast 12035060104, 12035060204, 12035060206, 12035060207, 12035060208, 12035060209, 12035060210, 12035060212, 12035060213, 12035060214

# WASTE & MATERIALS MANAGEMENT MEASURE: COMPOSTING & WASTE DIVERSION - 3 Cities: COJ, COAB, & COSA

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400, 12109021003, 12109020300

## WASTE & MATERIALS MANAGEMENT MEASURE: LANDFILL GAS RECOVERY & CONVERSION - 2 Cities: COJ & COAB

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001100, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010304, 12031010401, 12031010402, 1203101500, 12031010700, 12031010800, 12031010900, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012601, 12031012602, 12031012704, 12031012900, 12031013200, 12031013300, 12031013402, 12031013502, 12031013800, 12031013902, 12031013904, 12031014311, 12031015200, 12031015300, 12031015400, 12031015502, 12031015700, 12031015925, 12031016000, 12031016100, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400

<u>BY BURDEN</u>

## NE FL MSA Census Tracts Affected by Asthma

12031000100, 12031000200, 12031000300, 12031001300, 12031001400, 12031001500, 12031001600, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010402, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011502, 12031015502, 12031017400

## NE FL MSA Census Tracts Affected by Diabetes

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001300, 12031001400, 12031001500, 12031001600, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010700, 1203101800, 12031011000, 12031011100, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031016300, 12031017200, 12031017400, 12035060210

# NE FL MSA Census Tracts Affected by Low Life Expectancy

12019030400, 12031000100, 12031000200, 12031000300, 12031001000, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 1203101304, 1203101400, 12031010700, 12031011000, 12031011100, 12031011200, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031011901, 12031012100, 12031012200, 12031012500, 12031012602, 12031013402, 12031013800, 12031015502, 12031016200, 12031016300, 12031017400, 12035060206

# NE FL MSA Census Tracts Affected by Heart Disease

12019031104, 12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001500, 12031001600, 12031002600, 12031002801, 12031002802, 12031002901, 12031002902, 12031010700, 12031010800, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031012100, 12031016000, 12031016727, 12031017400, 12035060104, 12035060206, 12035060210, 12109020300

### NE FL MSA Census Tracts Affected by Traffic Proximity and Volume

12031000300, 12031000600, 12031001300, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031011100, 12031012100, 12031016200, 12031017200

## NE FL MSA Census Tracts Affected by Traffic Barriers

12003040201, 12019030102, 12019030103, 12019030104, 12019031104, 12019031105, 12019031106, 12031011300, 12089050503, 12035060204, 12035060206, 12109021101

#### NE FL MSA Census Tracts Affected by Diesel PM Exposure

12031000300, 12031000600, 12031001000, 12031001200, 12031015700, 12031016100, 12031016200, 12031016300, 12031017200, 12031017400

### NE FL MSA Census Tracts Affected by Energy Cost

12031000200, 12031000300, 12031001300, 12031001500, 12031001600, 12031002600, 12031002701, 12031002801, 12031002802, 12031002901, 12031002902, 12031011400, 12031011500, 12031011600, 12031017400

## NE FL MSA Census Tracts Affected by Expected Building Loss

12003040201, 12019031104, 12019031105, 12019031106, 12035060206, 12035060207, 12109021101

NE FL MSA Census Tracts Affected by Expected Population Loss

12031001000, 12031010402, 12031012601, 12031013904

#### NE FL MSA Census Tracts Affected by Projected Flood Risk

12031002501, 12031013800, 12031013904, 12035060104, 12035060206, 12035060207, 12035060212, 12035060213, 12109020300, 12109021101

#### NE FL MSA Census Tracts Affected by Projected Fire Risk

12019030102, 12019030103, 12019030104, 12019031104, 1203101304, 12031010500, 12031011901, 12031012704, 12031013300, 12031013402, 12031013502, 12031013904, 12031014311, 12031015925, 12031016000, 12035060204, 12035060207, 12035060208, 12035060210, 12035060214

# NE FL MSA Census Tracts Affected by Historic Underinvestment

12031000200, 12031000300, 12031001000, 12031001500, 12031001600, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031017200, 12031017400

# NE FL MSA Census Tracts Affected by Housing Cost/Burden

12031000100, 12031000200, 12031000300, 12031001300, 12031001500, 12031001600, 12031002501, 12031002600, 12031002701, 12031002901, 12031002902, 12031011500, 12031013200, 12031015300, 12031015502, 12031017400, 12109021003

# NE FL MSA Census Tracts Affected by Lead Paint

12031001200, 12031002502, 12031011800, 12031012900

### NE FL MSA Census Tracts Affected by Formerly Used Defense Sites

12019030102, 12019031105, 12019031106, 12031010304, 12035060207

# NE FL MSA Census Tracts Affected by Formerly Used Defense Sites

12031000100, 12031000200, 12031000300, 12031001000, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 1203101700, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031013200, 12031015200, 12031015300, 12031015400, 12031017200, 12031017400

# NE FL MSA Census Tracts Affected by Proximity to Superfund Sites

12031000100, 12031000200, 12031000300, 12031001000, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 1203101700, 12031011200, 12031011300, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031013200, 12031015200, 12031015300, 12031015400, 12031017200, 12031017400

### NE FL MSA Census Tracts Affected by Proximity to Risk Management Plans (RMP) Facilities

12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010402, 12031011100, 12031011400, 12031011500, 12031011600, 12031011700, 12031011800, 12031012000, 12031012100, 12031012200, 12031012300, 12031013800, 12031013902, 12031013904, 12031015200, 12031015300, 12031015400, 12031015700, 12031017200, 12031017400, 12109020300

# NE FL MSA Census Tracts Affected by Proximity to Linguistic Isolation

#### 12031016000, 12031016100, 12031016200

# NE FL MSA Census Tracts Affected by Proximity to Linguistic Isolation

12031016000, 12031016100, 12031016200,

## NE FL MSA Census Tracts Affected by Low Median Income

12031000100, 12031000200, 12031000300, 12031001000, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002600, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031010402, 12031011100, 12031011300, 12031011400, 12031011500, 12031011600, 12031011800, 12031012200, 12031012601, 12031015502, 12031017400

NE FL MSA Census Tracts Affected by Education Less Than a High School Diploma

12031000200, 12031000300, 12031001000, 12031001600, 12031002600, 12031002802, 12031012100

## **NE FL MSA Census Tracts Affected by Poverty**

12019030400, 12031000100, 12031000200, 12031000300, 12031000600, 12031001000, 12031001300, 12031001500, 12031001600, 12031002600, 12031002702, 12031002901, 12031002902, 1203101402, 1203101500, 12031011600, 12031017200, 12031017400

### NE FL MSA Census Tracts Affected by Unemployment Rate

12031000100, 12031000200, 12031000300, 12031001600, 12031002501, 12031002600, 12031002702, 12031002801, 12031002902, 12031010401, 12031010700, 12031011000, 12031011300, 12031011500, 12031011600, 12031011800, 12031012602, 12031015300

# NE FL MSA Census Tracts Affected by Underground Storage Tanks and Releases

12019030400, 12031000200, 12031000300, 12031000600, 12031001000, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031002501, 12031002502, 12031002600, 12031002701, 12031002702, 12031002801, 12031002802, 12031002901, 12031002902, 12031011100, 12031011200, 12031011400, 12031011500, 12031011600, 12031011800, 12031012000, 12031012100, 12031012200, 12031012300, 12031012500, 12031012602, 12031012900, 12031013902, 12031014311, 12031015300, 12031015400, 12031016000, 12031016000, 12031016000, 12031016200, 12031016300, 12031016601, 12031016726, 12031016727, 12031017200, 12031017400

## NE FL MSA Census Tracts Affected by Wastewater Discharge and Releases

12031000100, 12031000200, 12031000300, 12031001200, 12031001300, 12031001400, 12031001500, 12031001600, 12031013200, 12031013402

NE FL MSA Climate Pollution Reduction Grant Priority Climate Action Plan List of Resources

- EPA's Local GHG Inventory Tool (LGGIT) -- <u>https://www.epa.gov/statelocalenergy/local-greenhouse-gas-inventory-tool</u>
- Facility-specific GHG data published by the EPA in the Facility Level Information on Greenhouse Gases Tool (FLIGHT) --<u>https://ghgdata.epa.gov/ghgp/main.do</u>
- Data reported to the EPA's Greenhouse Gas Reporting Program -- https://www.epa.gov/ghgreporting/data-sets
- EPA's National Emissions Inventory -- <u>https://www.epa.gov/air-emissions-inventories/national-emissions-inventory-nei</u>
- United States Department of Energy State and Local Planning for Energy (SLOPE) Platform -- https://maps.nrel.gov/slope
- The World Resources Institute and World Business Council for Sustainable Development Global Protocol for Community-Scale (GPC) Greenhouse Gas Inventories -- <u>https://ghgprotocol.org/ghg-protocol-cities</u>
- American Community Survey -- https://data.census.gov/table?q=S1101&y=2019
- County Business Patterns -- https://data.census.gov/table?q=CBP2019.CB1900CBP
- Data reported in the United States Energy Information Administration's State Profile and Energy Estimates --<u>https://www.eia.gov/state/data.php?sid=FL</u>
- Google's Environmental Insights Platform -- https://insights.sustainability.google/
- Florida's Department of Environmental Protection Report for MSW Management -- https://floridadep.gov/sites/default/files/Baker 2019.pdf
- Census data from the USDA National Agricultural Statistics Service -- https://www.nass.usda.gov/Publications/AgCensus/2017/
- Florida Public Service Commission (PSC) -- https://www.psc.state.fl.us
- NextEra Zero Carbon Blueprint -- NEER-124 120522 ZCB SHARED FCB 08 17 22 Studio v1.pdf (nexteraenergy.com)
- JEA's 2023 Electric Generation Integrated Resource Plan -- https://www.jea.com/About/JEA 2023 Electric Integrated Resource Plan/
- Code of Ordinances section regarding the creation of JEA, Article 21, Jacksonville Code of Ordinances: <u>https://library.municode.com/fl/jacksonville/codes/code of ordinances?nodeld=CHRELA PTACHLACHJAFL ART21JE</u>
- DOE Office of Energy Efficiency and Renewable Energy "Energy Data Facts: Residential Program Guide" -- <u>https://rpsc.energy.gov/energy-data-facts</u>
- Nationwide evaluation of tree cover shows huge opportunity to reduce heat exposure and boost air quality and employment --<u>https://www.americanforests.org/article/american-forests-launches-nationwide-tree-equity-scores/</u>
- How Much CO2 Does A Tree Absorb? | One Tree Planted -- https://onetreeplanted.org/blogs/stories/how-much-co2-does-tree-absorb
- Trees Are Climate Change, Carbon Storage Heroes | US Forest Service (usda.gov) -- <u>https://www.fs.usda.gov/features/trees-are-climate-change-carbon-storage-heroes</u>
- The long-term effect of increasing the albedo of urban areas | Environmental Research Letters -https://iopscience.iop.org/article/10.1088/1748-9326/7/2/024004/meta#erl422949fig4
- Green Values Stormwater Management Calculator | Center for Neighborhood Technology -- https://greenvalues.cnt.org/index.php
- Carbon reduction potential of a rain garden: A cradle-to-grave life cycle carbon footprint assessment | Journal of Cleaner Production https://www.sciencedirect.com/science/article/abs/pii/S0959652623039641
- Smart Surfaces Baltimore Report -- https://smartsurfacescoalition.org/baltimore-report
- Resources regarding extreme heat in Jacksonville -- <u>https://www.resilientjacksonville.com/resources</u>
- North Florida Transportation Planning Organization Clean Fuels Master Plan Report -- https://northfloridatpo.com/uploads/Clean-Fuels-Master-Plan-Report\_Final\_240209.pdf
- Jacksonville Transportation Authority's MOVE2027 strategic plan -- jtafla.com/media/34fnjggb/move2027.pdf
- Jacksonville Transportation Authority's Sustainability Action Plan -- <u>https://www.transit.dot.gov/sites/fta.dot.gov/files/2022-04/Jacksonville-</u> <u>Transportation-Authority-Sustainability-Action-Plan.pdf</u>

- Google Environmental Insights Explorer data on NEFL Outbound Travel -- <u>Google Environmental Insights Explorer Make Informed</u> <u>Decisions (sustainability.google)</u>
- Brookings Institute's Study on Transit and Labor -- <u>https://www.brookings.edu/wp-content/uploads/2016/06/11-transit-labor-tomer-full-paper.pdf</u>
- Shorter commute times and upward economic mobility research -- https://scholar.harvard.edu/files/hendren/files/mobility geo.pdf
- Reducing or eliminating parking minimums -- U.S. cities are getting rid of parking minimums : NPR
- Westrock Sustainability Plan -- westrock.com/-/media/pdf/sustainability/westrock-sustainability-report-2022-pdf.pdf?sc lang=en
- Rayonier Sustainable from the Start -- https://ryam.com/our-innovation/sustainable-from-the-start/
- CMC Steel 2021 Sustainability Report -- <u>https://www.cmc.com/getmedia/f81a63c4-6285-4c8a-a573-35f79d71fe24/CMC 2021 Sustainability Report.pdf</u>
- Symrise Sustainability & Responsibility 2021 Report -- <a href="https://www.symrise.com/corporatereport/2021/en/sustainability-responsibility/sustainability-and-responsibility.html">https://www.symrise.com/corporatereport/2021/en/sustainability-responsibility/sustainability-and-responsibility.html</a>
- Anchor Glass Container Sustainability webpage --<u>https://anchorglass.com/about/sustainability/</u>
- Anheuser-Busch Environmental Sustainability webpage -- https://www.anheuser-busch.com/community/environmental-sustainability
- American Gypsum Sustainability webpage -- https://www.americangypsum.com/resource-center/sustainability
- International Flavors and Fragrances Inc. Sustainable Solutions webpage -- https://www.iff.com/responsibilities/sustainable-solutions/
- Crowley, JAXPORT Awarded Grant to Make Terminal More Sustainable | Crowley --<a href="https://www.crowley.com/news-and-media/press-releases/jaxport-express/">https://www.crowley.com/news-and-media/press-releases/jaxport-express/</a>
- Jacksonville Port Authority specific powers and duties --<u>https://library.municode.com/fl/jacksonville/codes/code\_of\_ordinances?nodeld=CHRELA\_PTBRELA\_ART5JAPOAU\_S3PO#:~:text=The%20Jacksonville%20Port%20Authority%20shall,boundary%20lines%20as%20hereinafter%20provided</u>
- National Renewable Energy Laboratory (NREL) energy efficiency strategies for wastewater treatment facilities -- Energy Efficiency <u>Strategies for Municipal Wastewater Treatment Facilities (nrel.gov)</u>
- EPA's Best Management Practices for Preventing Stormwater Contamination for Sanitary Sewage -- <u>NPDES: Stormwater Best Management</u> <u>Practice, Preventing Stormwater Contamination from Sanitary Sewage (epa.gov)</u>
- Center for Disease Control study of long term exposure to LFG -- ATSDR Landfill Gas Primer Chapter 3: Landfill Gas Safety and Health Issues (cdc.gov)
- Nassau County Conservation Lands Acquisition and Management (CLAM) conservation plan -- <u>20210111-CLAM\_Final\_Word</u> (nassaucountyfl.com)
- Nassau County Conservation Lands Acquisition and Management (CLAM) conservation plan map -- 082522-CLAM-Map (nassaucountyfl.com)
- USDA GHG emissions and carbon sequestration resources -- <u>Greenhouse Gas Emissions and Removals From Forest Land, Woodlands,</u> <u>Urban Trees, and Harvested Wood Products in the United States, 1990–2021 (usda.gov)</u> and <u>Carbon sequestration in agricultural lands</u> <u>of the United States (usda.gov)</u>
- Nassau County land development and future grown plan -- <u>Microsoft Word 9-Future Land Use Element D&A Clean Copy .doc</u> (nassaucountyfl.com)
- Council on Environmental Quality Climate and Economic Justice Screening Tool (CEJST) -- <u>https://screeningtool.geoplatform.gov/en/#9/30.2857/-81.7015</u> and burdens spreadsheet <u>https://screeningtool.geoplatform.gov/en/downloads</u>

- EPA EJ Screen Mapping Tool -- <u>https://ejscreen.epa.gov/mapper</u>
- Resilient Jacksonville October 2023 Report -- www.resilientjacksonville.com