



Comprehensive Climate Action Plan Kickoff

Thursday, August 29, 2024

TODAY'S AGENDA



Welcome + Opening
Remarks



Comprehensive
Climate Action Plan
Presentation



Q&A



Roundtable
Breakouts



Roundtable Report
Outs



Next Steps

Team



ERIN L. DEADY, P.A. 



Ashantae Green

Sustainability Manager
City of Jacksonville





A Call to Action

Mayor Donna Deegan's Commitment to Climate Solutions



Dr. Sarah Taft

Senior Policy Advisor (Acting) for the Air and Radiation Division
Environmental Protection Agency



What is Sustainability?

**\$178
Trillion**



Heat Stress
Lost Labor



Agricultural Loss
Reduced Yields



Damaged Capital
Stalling Productivity



Human Health
Disease + Mortality



Lost Tourism
Disrupted Flow of Global
Currency

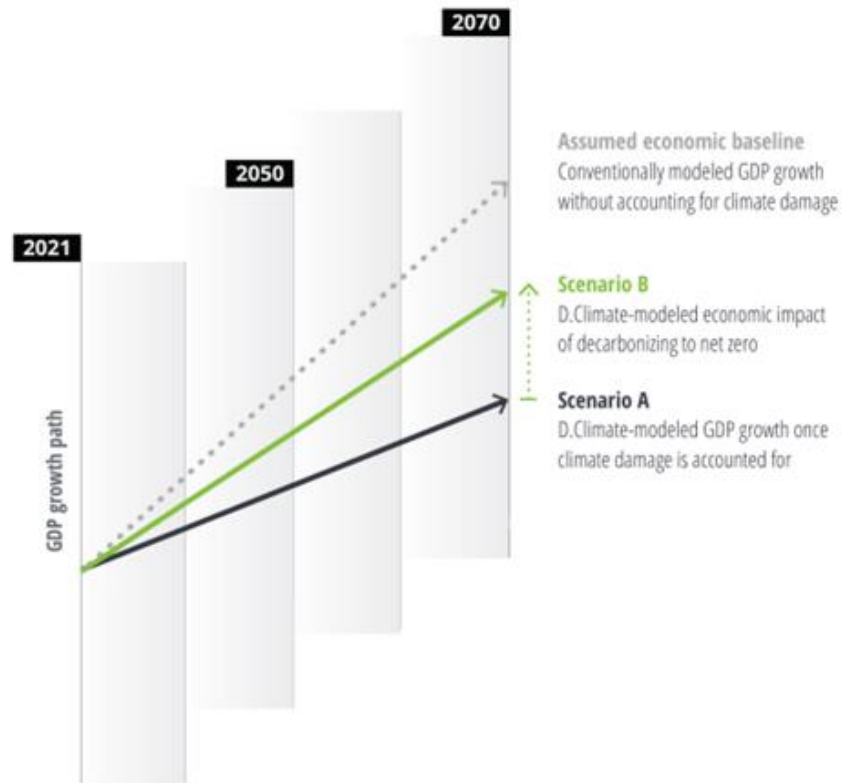


Sea Level Rise
Loss of Land

Cost of Inaction

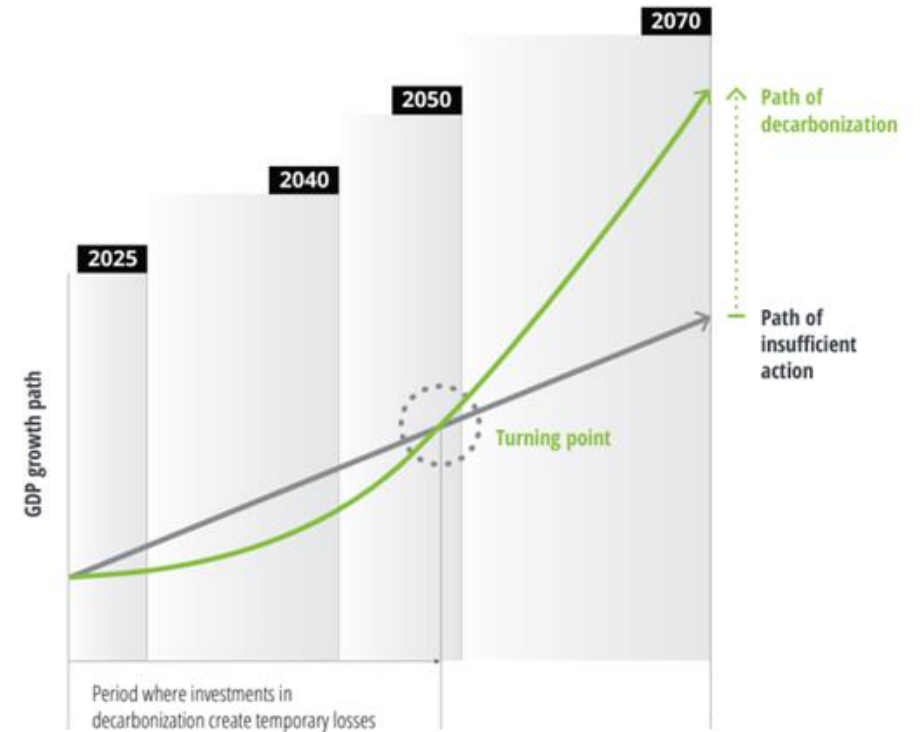
A net-zero future offers opportunity compared to a path of inaction

FIGURE 1. This illustration depicts the opportunity of new economic growth under a net-zero scenario



Achieving net zero by midcentury could spur economic gains by 2070

FIGURE 6. Illustrative growth path during the four phases of transition



Climate Investments to Economic Gains

Figure 1. Energy supply receives about half of IRA resources, with significant investments in clean manufacturing and housing (billions of dollars)

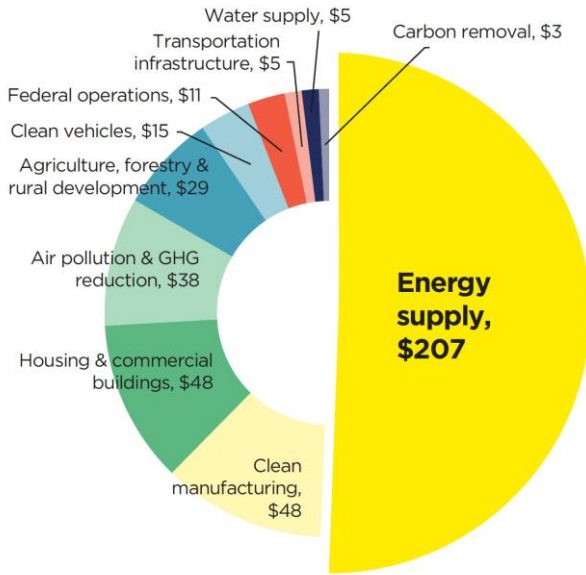
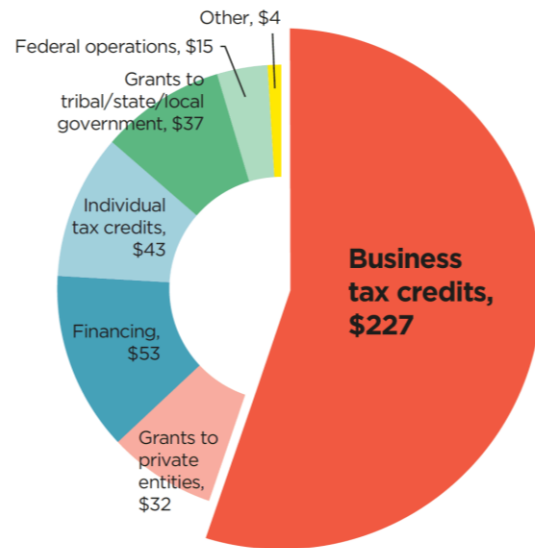
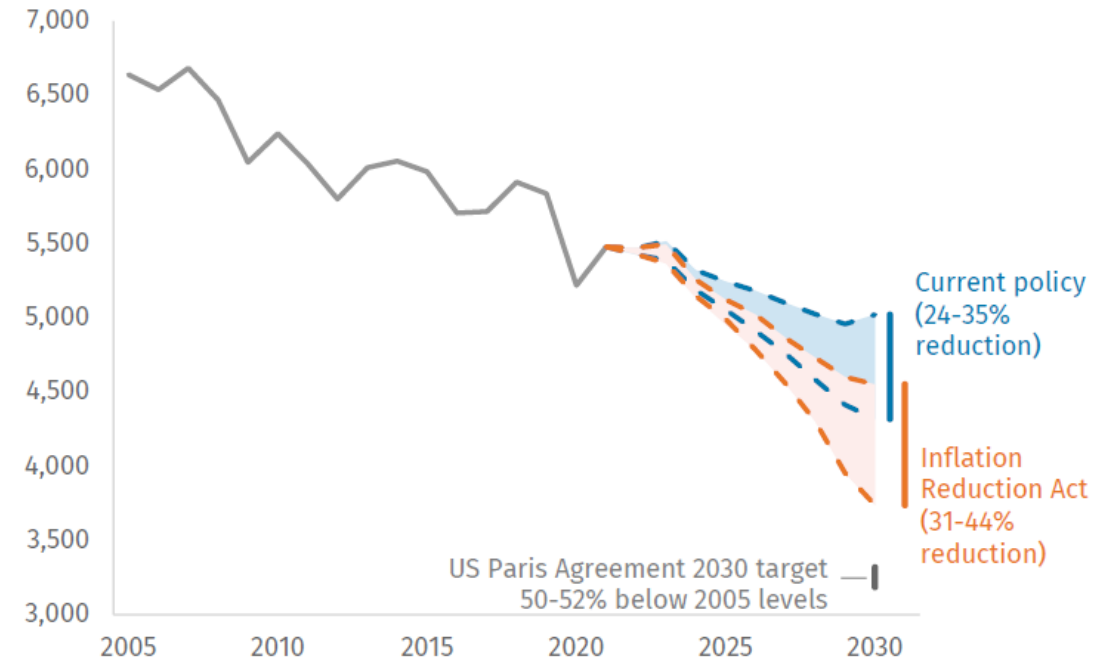


Figure 2. The largest share of IRA funding will be available as tax credits to businesses (billions of dollars)



**FIGURE 1
US greenhouse gas emissions**
Net million metric tons (mmt) of CO₂-e

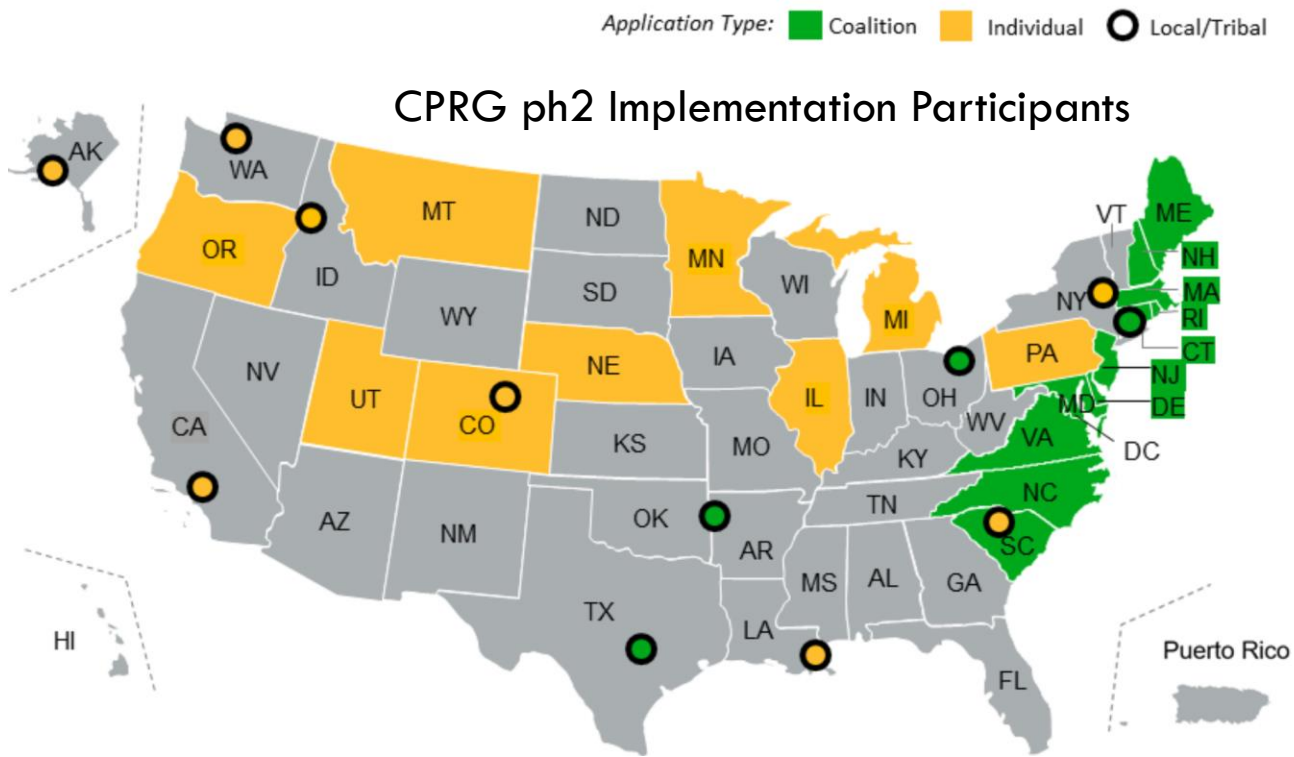
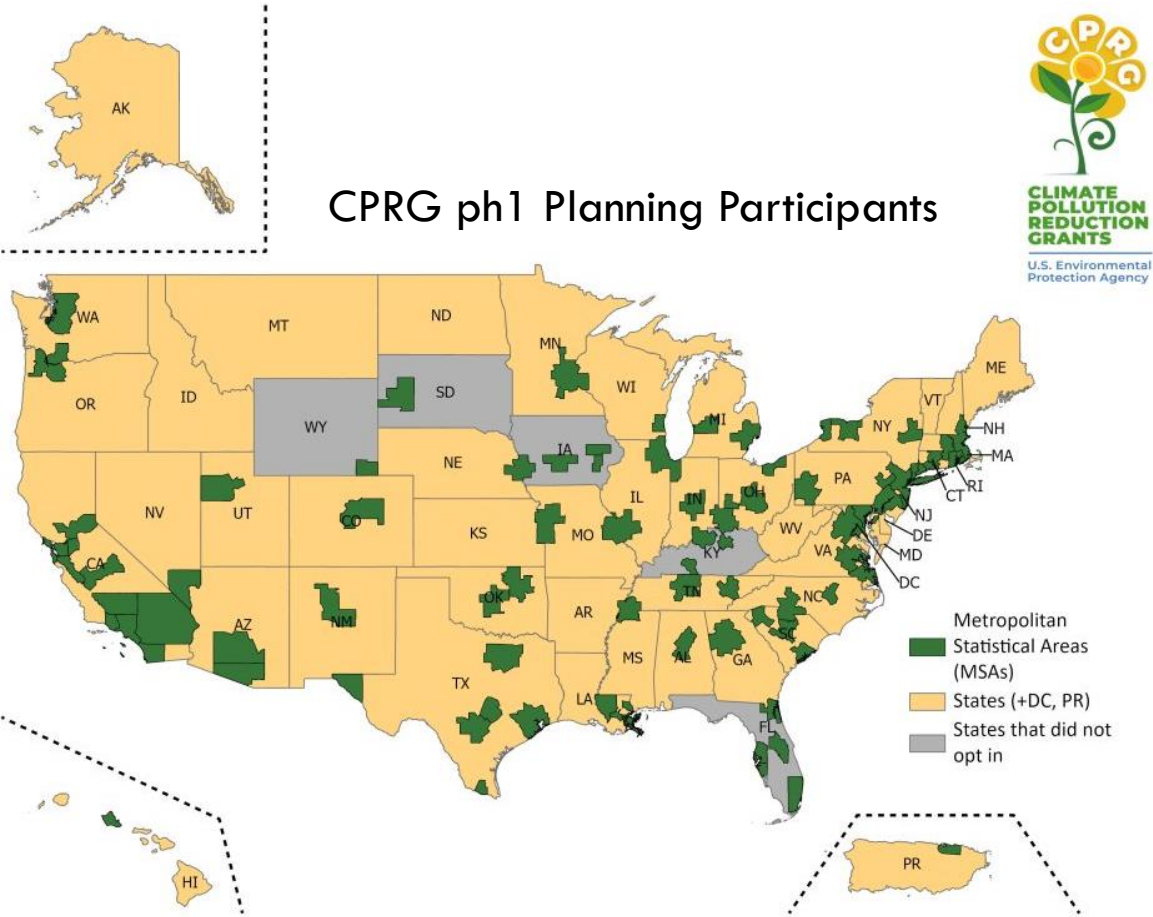


Source: Rhodium Group. The range reflects uncertainty around future fossil fuel prices, economic growth, and clean technology costs. It corresponds with high, central, and low emissions scenarios detailed in [Taking Stock 2022](#). Under the central scenario (not shown), the IRA accelerates emissions reductions to a 40% cut from 2005 levels.

Impact of Federal Funding

Source: C40knowledgehub.org

NE FL Climate Pollution Reduction Grant Overview



CPRG Project Timeline



What is the Northeast Florida MSA?

8/29/2024

Nassau

Duval

Clay

St. Johns

Flagler

● City of
Palm Coast

Jacksonville Metropolitan Statistical Area
Duval, Clay, St. Johns, Nassau, & the City of Palm Coast.

CARBON DIOXIDE



coal and crude oil

fossil fuel combustion

transportation

agriculture

natural gas systems

landfills



METHANE

NITROUS OXIDE



cars

manufacturing

agricultural soil management

electrical transmission

hydrofluorocarbons



substitute of ODS

semiconductor manufacturing

perfluorocarbons



aluminium production



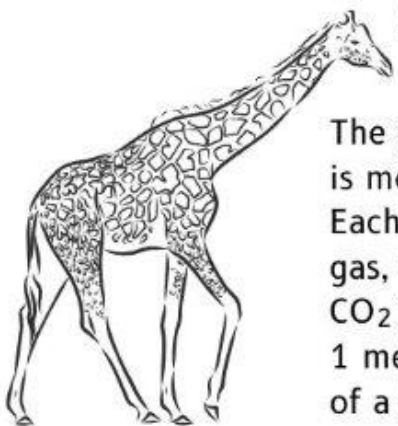
sulfur hexoflouride
magnesium prod

Greenhouse Gases [GHG] and their sources

The global warming potential [GWP] of each GHG is measured using the equation 'TgCO₂Eq'. Each gas's GWP is measured against the reference gas, CO₂.

CO₂ is measured in 1 million metric tons.

1 metric ton is 1000 kilograms = average weight of a female giraffe



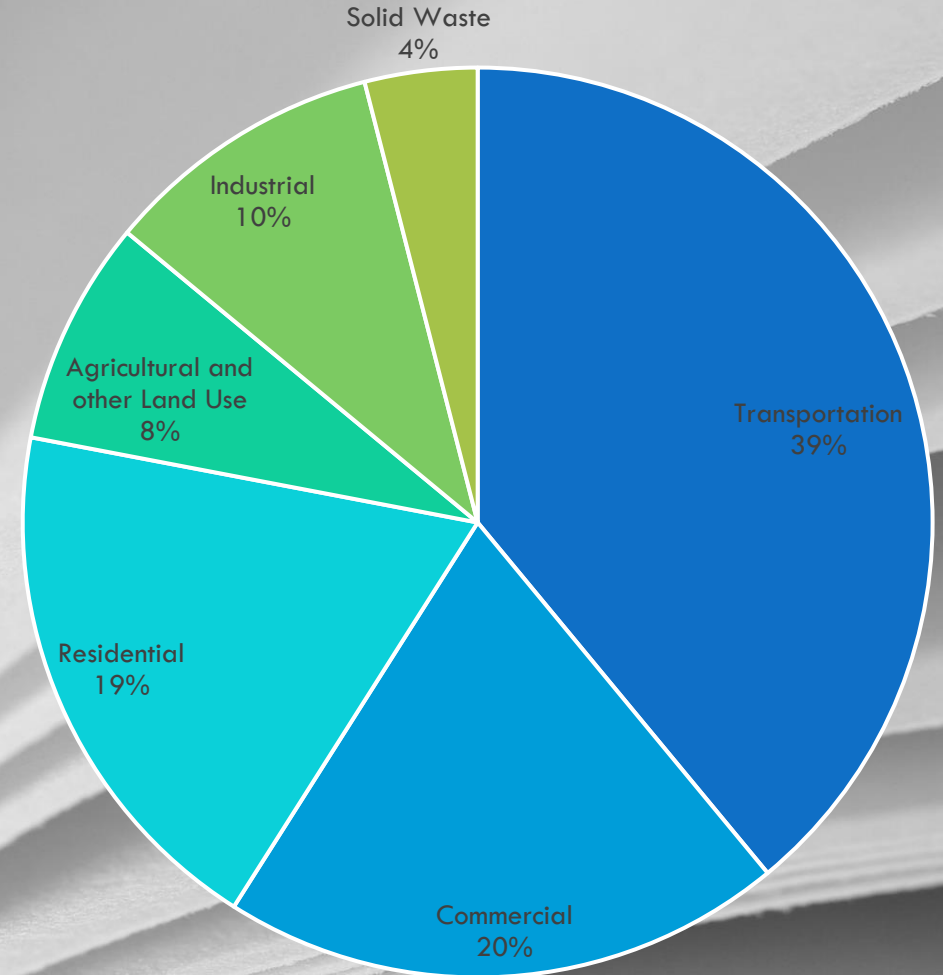
Key Sectors



2019 NEFL GHG Inventory

Northeast Florida

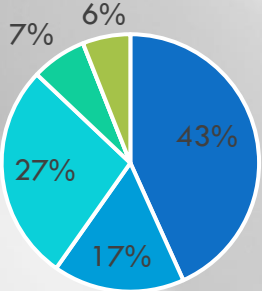
Sector	Emissions (mtCO ₂ e)
Residential Energy Total	3,662,179
Commercial Energy Total	3,861,188
Transportation & Mobile Sources Total	7,372,833
Solid Waste Total	700,223
AFOLU Total	1,561,191
Industrial Energy Total	1,235,227



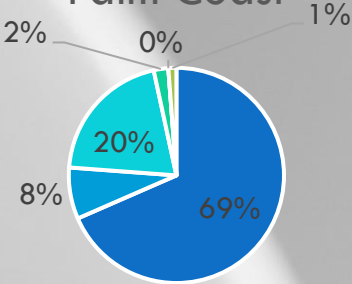
Source: Clean Air NEFL Priority Climate Action Plan 2024
Clean Air Northeast Florida

How does my county compare?

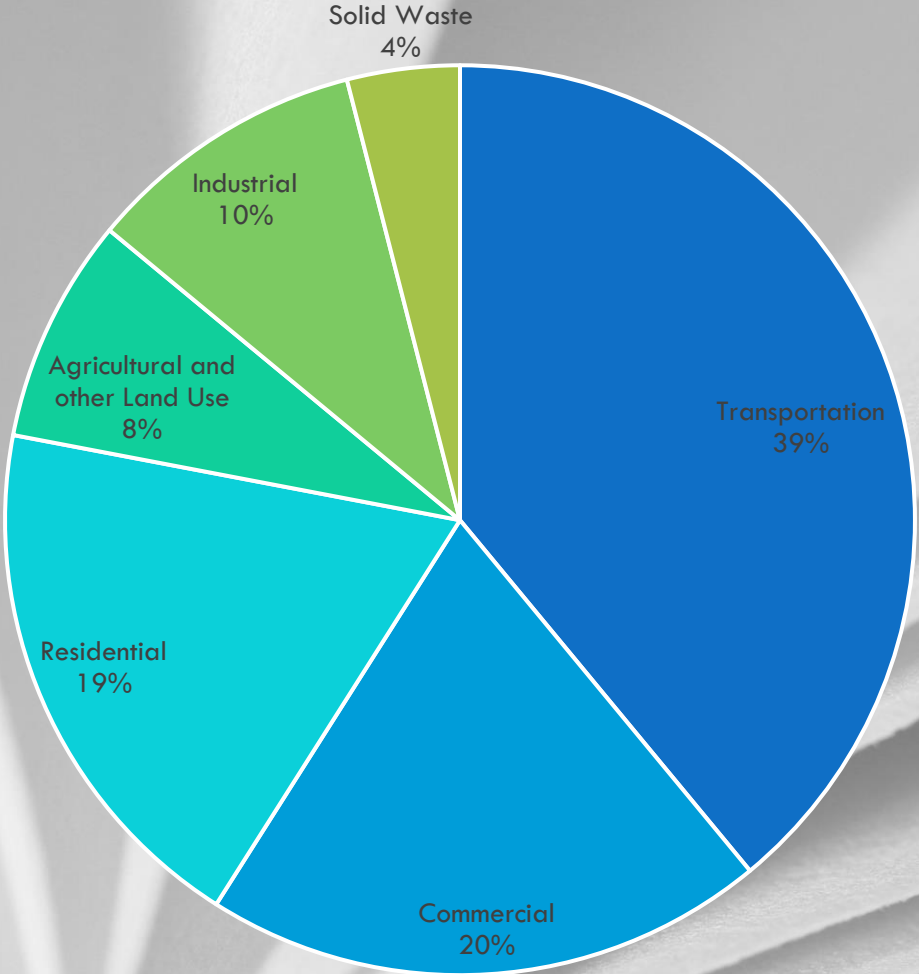
Clay County



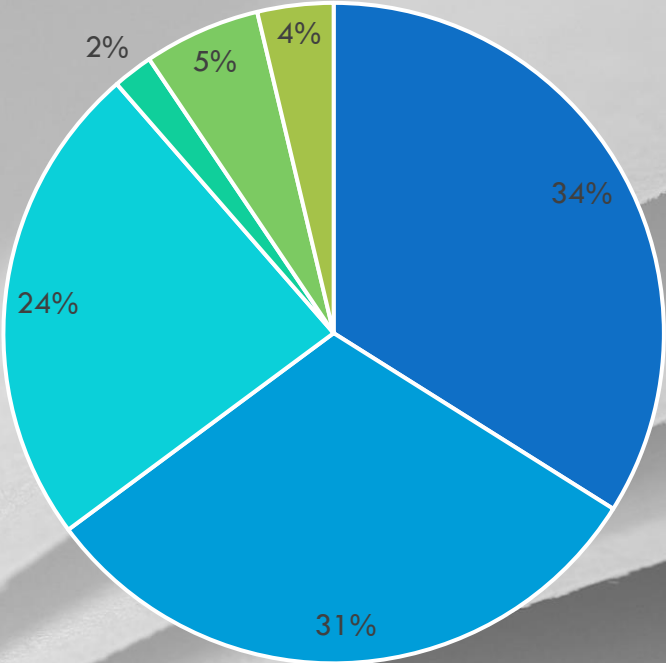
Palm Coast



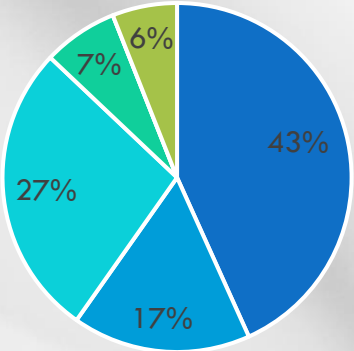
Northeast Florida



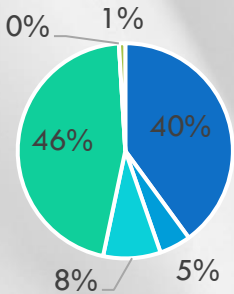
Duval County



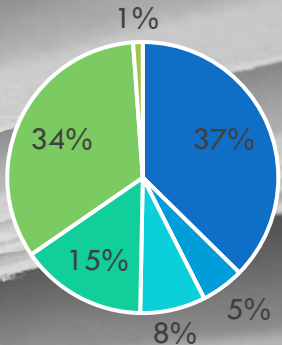
St. Johns County



Baker County



Nassau County



CLEAN AIR NORTHEAST FLORIDA

REGIONAL PRIORITY

CLIMATE ACTION PLAN

MARCH 2024



NEFL Priority Measures

Electrical Grid and Residential/Commercial Buildings

- Clean Energy Increase by Local Utility Companies
- Residential Solar and Energy Efficiency Programs
- Municipal Solar Expansion
- Municipal Built Environment and Infrastructure Decarbonization

Transportation

- North Florida TPO's Clean Fuels Initiative
- Mass Transit Expansion and Mobility Hubs
- Bicycle and Pedestrian Programs
- Fleet Transition to Electric Vehicles (EV)

NEFL Priority Measures

Waste, Materials Management, Ag and Land Use

- Wastewater Treatment Efficiency Upgrades
- Commercial Composting Program
- Landfill Gas Recovery and Conversion
- Preservation and Expansion of Forest

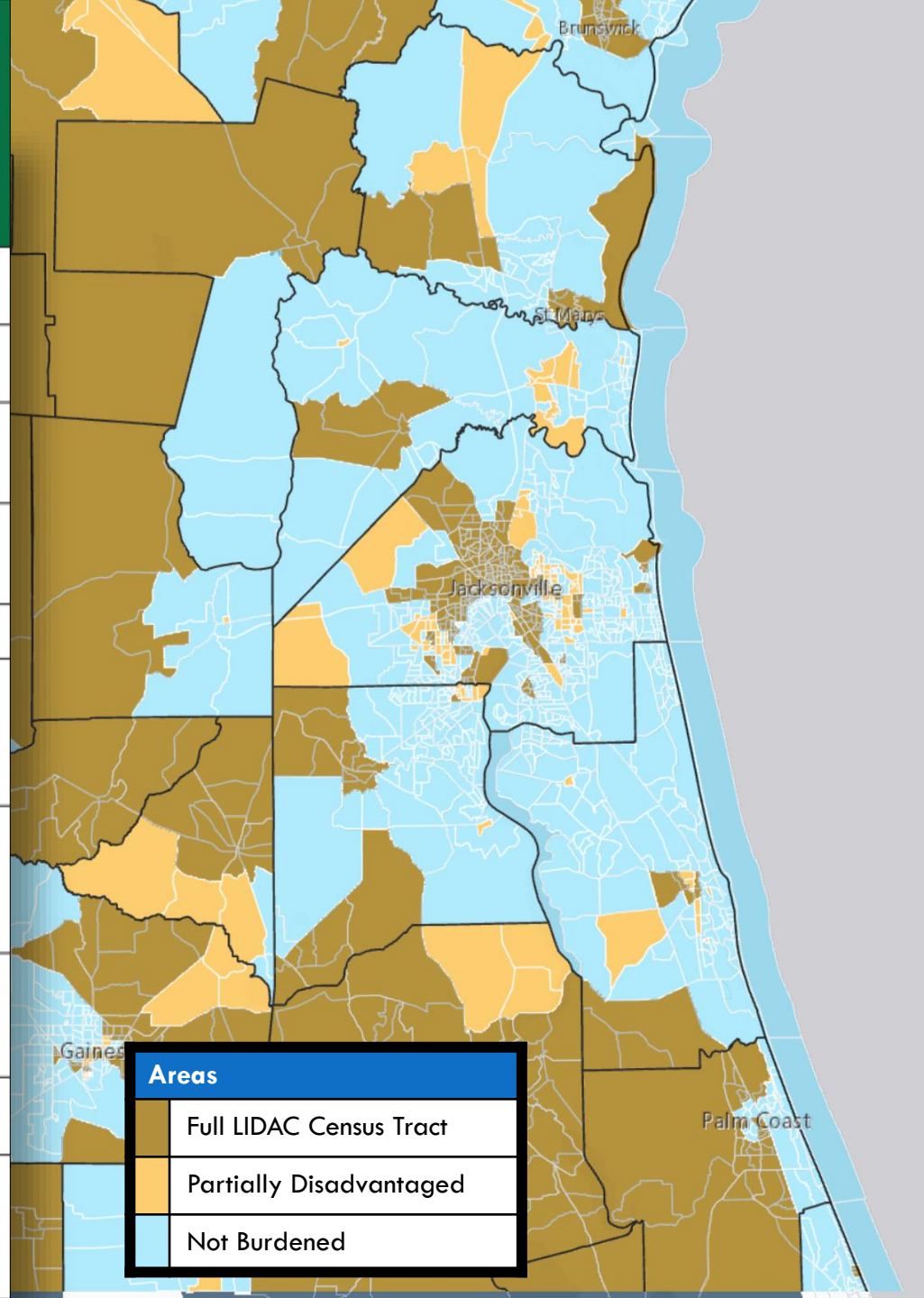
Industrial

- Green Shipping Corridor

NEFL Burden Analysis

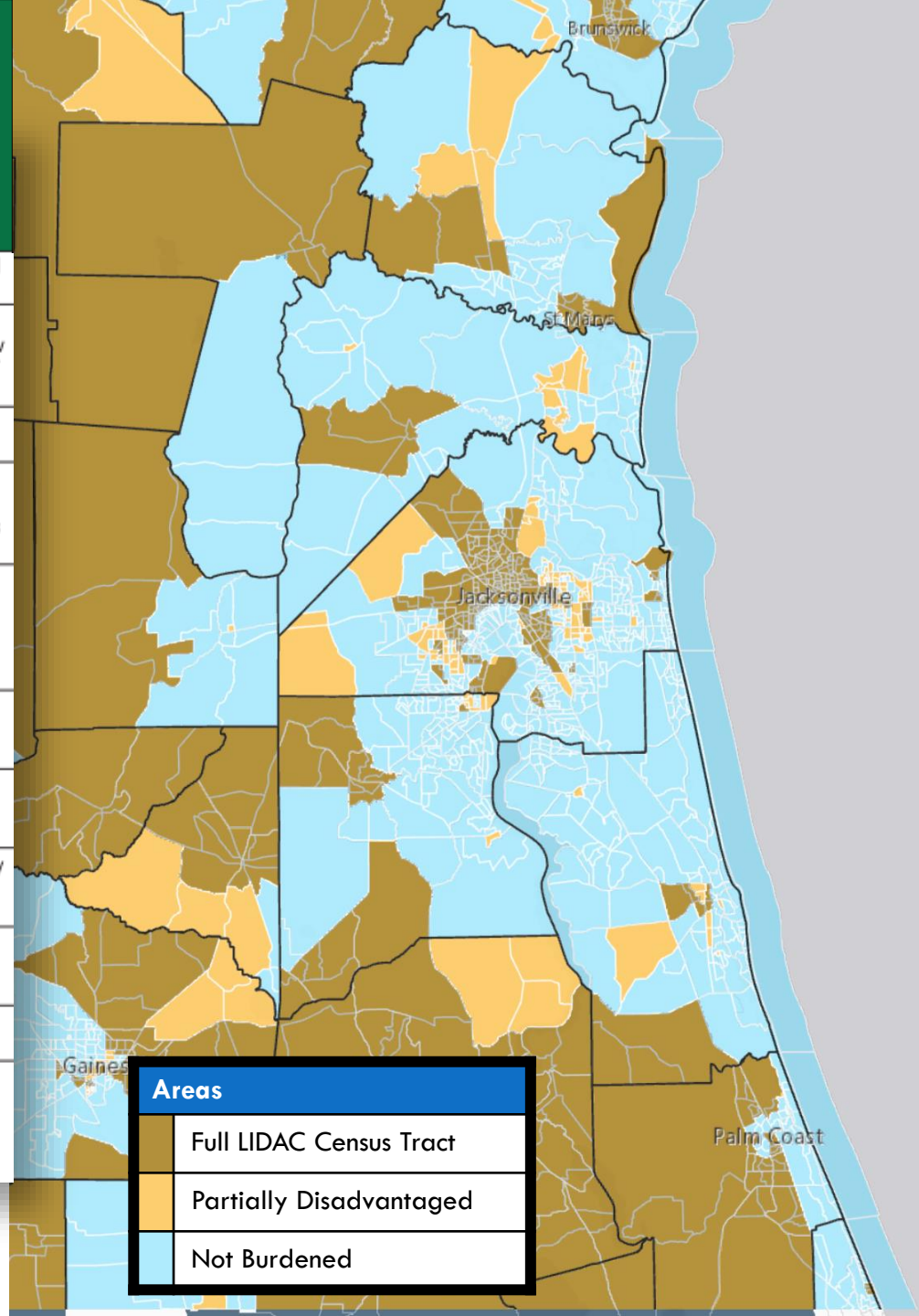
8/29/2024

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



NEFL Burden Analysis

Burden	Number of LIDACs / Frequency of Burden (90th and Low Income/HS)	Number of People Affected	Location / Number of Census Tracts Impacted	Proposed Measure(s)
Housing cost/burden	17	61,149	16 Duval, 1 St. Johns	Potentially energy efficiency and solar for buildings
Projected Flood Risk	10	50,026	3 Duval, 5 Palm Coast, 2 St. Johns	All proposed will potentially indirectly will indirectly help slow down and reduce the severity of acute weather events
Energy Burden/Costs	15	49,784	15 Duval	Energy efficiency and solar for buildings
Historic Underinvestment	14	46,479	14 Duval	Energy efficiency and solar for buildings; EV fleet transition; Bike/Pedestrian programs; Mass transit expansion; Mode shift
Expected Building Loss	3	38,062	2 Flagler, 1 St. Johns	All proposed measures will potentially indirectly will indirectly help slow down and reduce the severity of acute weather events
Traffic Proximity and Volume	12	37,826	12 Duval	EV fleet transition; Bike/Pedestrian programs; Mass transit expansion; Mode shift
Diesel PM Exposure	10	36,594	10 Duval	EV fleet transition; Bike/Pedestrian programs; Mass transit expansion; Mode shift
Wastewater discharge	10	34,409	10 Duval	Wastewater treatment efficiency upgrades will slow down infiltration and discharge
Education less than a high school diploma +25 yo	7	20,222	7 Duval	Workforce development and training tied to measure implementation
Linguistic isolation	3	18,646	3 Duval	Intentional outreach with sensitivity to linguistic needs
Expected Population Loss	4	16,001	4 Duval	All proposed measures will potentially indirectly will indirectly help slow down and reduce the severity of acute weather events



CANF Roundtable Co-Chairs



ANGELA DEMONBREUN

COO
Solar United Neighbors
Energy Sector Roundtable



KEVIN DAVENPORT, PE, ENV SP

Client Director
Black & Veatch
Energy Sector Roundtable



JAYNELLE PEMBERTON, PE

NE FL Water Group Leader
Jacobs
Water & Wastewater Sector Roundtable



MARLA BUCHANAN, JD

COO & General Counsel
GreenTechnologies, LLC,
Water & Wastewater Sector Roundtable



AMERICUS SPENCER-HAROLD, RGC

Owner
Spencer Construction & Engineering
Commercial Building Sector Roundtable



AISHA ECCELSTON MUNDY

President
Eccleston International, Inc.
Residential Building Sector Roundtable



ALEXANDER TRAVERSA

Director Sustainability & Resiliency
Jacksonville Transportation Authority
Transportation Sector Roundtable

CANF Roundtable Co-Chairs



DARREN EAKINS

Founder & CEO
Golden Age Innovations
Industrial Sector Roundtable



MAEVEN ROGERS

Community Engagement Manager
EcoPreserve
Industrial Sector Roundtable



ANGELA TENBROECK

Manager, Agriculture, Ecology, Urban Agriculture, & Land Use
Policy
City of Jacksonville
Agriculture, Forestry, Natural & Working Lands Sector Roundtable



ERIN DEADY

President
Erin L. Deady, PA
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CHRISTINA KELCOURSE, ESQ, CFP, CRPC

Co-Owner
Sunshine Organics & Compost
Waste & Materials Management Sector Roundtable



ELIZABETH JOHNSON

Sustainability Specialist
City of St. Augustine
Waste & Materials Management Sector Roundtable



DEBORAH THOMPSON

Owner
Deborah K. Thompson, Consultants
Community Sector Roundtable



JONI ROBERTS

Founder & Chief Evolution Officer
Evolution University
Community Sector Roundtable

Break

10 minutes to complete gallery walk

Check-in with volunteers at your roundtable

Roundtable Instructions

Use the Linktree to access any roundtable materials

Introduce yourself

Discuss outcomes on gallery walk exercise

Review/Discuss GHG measures



CLEAN AIR NORTHEAST
FLORIDA
REGIONAL CLIMATE ACTION PLAN



8/29/2024

Report out

By sector, take 1 minute to share discussion points

What did your group find interesting?

Was there anything new that you learned?

Where are there opportunities for investment and advancement?

Next Steps

Stay engaged: cleanairnortheastflorida.com

Attend virtual roundtables

Complete the technical survey

Scan QR code: share your thoughts/questions with us