CENTRAL INDIANA
ENVIRONMENTAL ACTION PLAN

STEERING COMMITTEE & SUBCOMMITTEE KICKOFF MEETING

September 27th, 2023

CIRDA 2023

AGENDA

01 CPRG Program Overview

02 Stakeholder Engagement
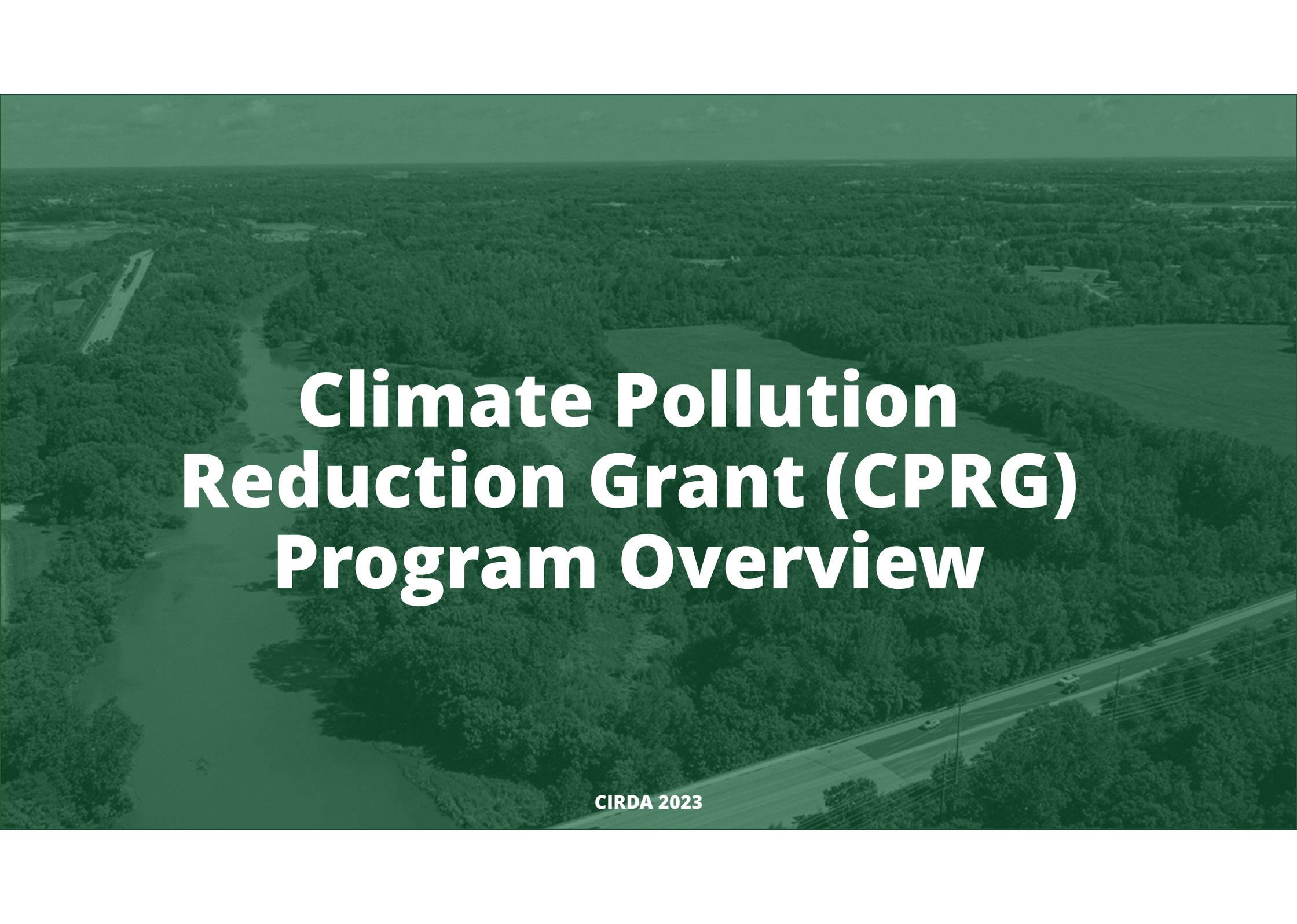
03 GHG Inventory

04 Next steps

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Vision

- Central Indiana is developing a plan to create a more sustainable future by adopting strategies that limit greenhouse gas (GHG) emissions.

- Central Indiana is a job center and an economic hub for the state. Our regional plan will aim to:

  - Generate high-quality and high-wage job opportunities.

  - Increase the region's per capita income

  - Improve the health of our communities

  - Create vibrant places that attract and retain high caliber talent to the region and state

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Climate Pollution Reduction Grant (CPRG) Program Overview

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CPRG Overview

- U.S. EPA's Climate Pollution Reduction Grants (CPRG) program provides grants to states, local governments, tribes, and territories to develop and implement plans for reducing GHG emissions and other harmful air pollution.

- Funded with $5 billion from the Inflation Reduction Act.

- CPRG is a two-phase grant program:

  - **Phase 1:** $250 million for noncompetitive planning grants
  - **Phase 2:** $4.3 billion for competitive implementation grants
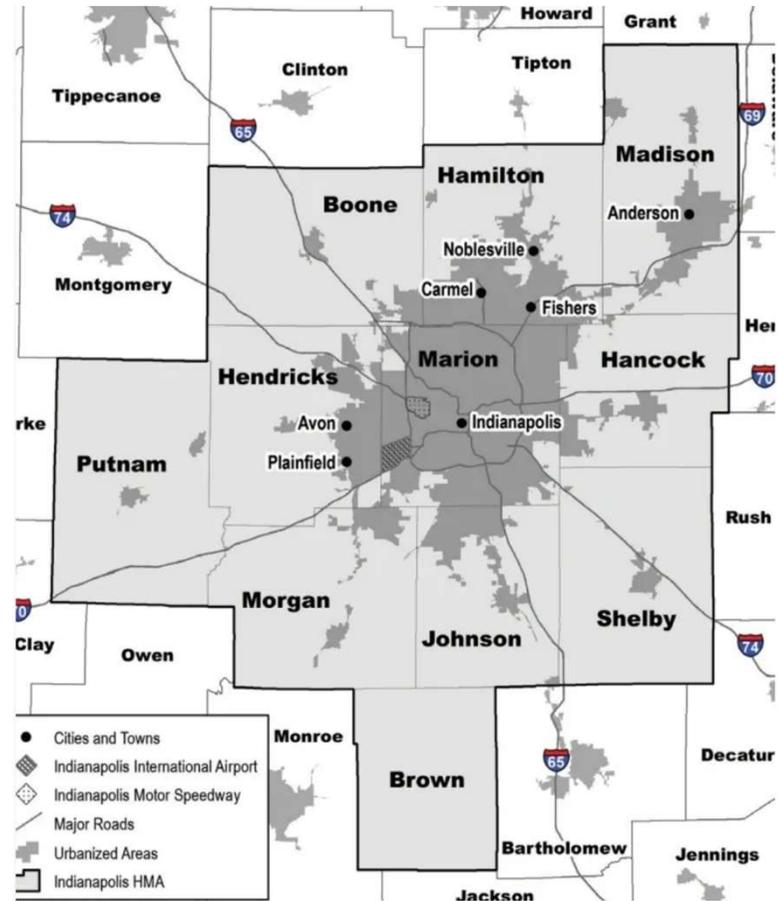
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CPRG Overview

- **CIRDA was awarded $1 million from EPA's Phase 1 planning grant** to develop a regional plan for reducing GHG emissions and other harmful air pollution.

- Regional plan must include **priority actions** to reduce GHG emissions in Central Indiana.

- After the regional plan is complete, **CIRDA and municipalities across the region will be eligible to compete for $4.3 billion in EPA grants** to fund the priority GHG actions and associated projects identified in the regional plan. **Submission deadline is April 1, 2024**.

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Indianapolis-Carmel-Anderson MSA

CIRDA represents the Central Indiana Indianapolis-Carmel-Anderson MSA, comprised of 11 counties

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PROJECT TEAM

CENTRAL INDIANA REGIONAL DEVELOPMENT AUTHORITY

CIRDA is the grantee for the CPRG funds. The grant's Steering Committee is comprised of CIRDA's member municipalities.

INDIANAPOLIS METROPOLITAN PLANNING ORGANIZATION

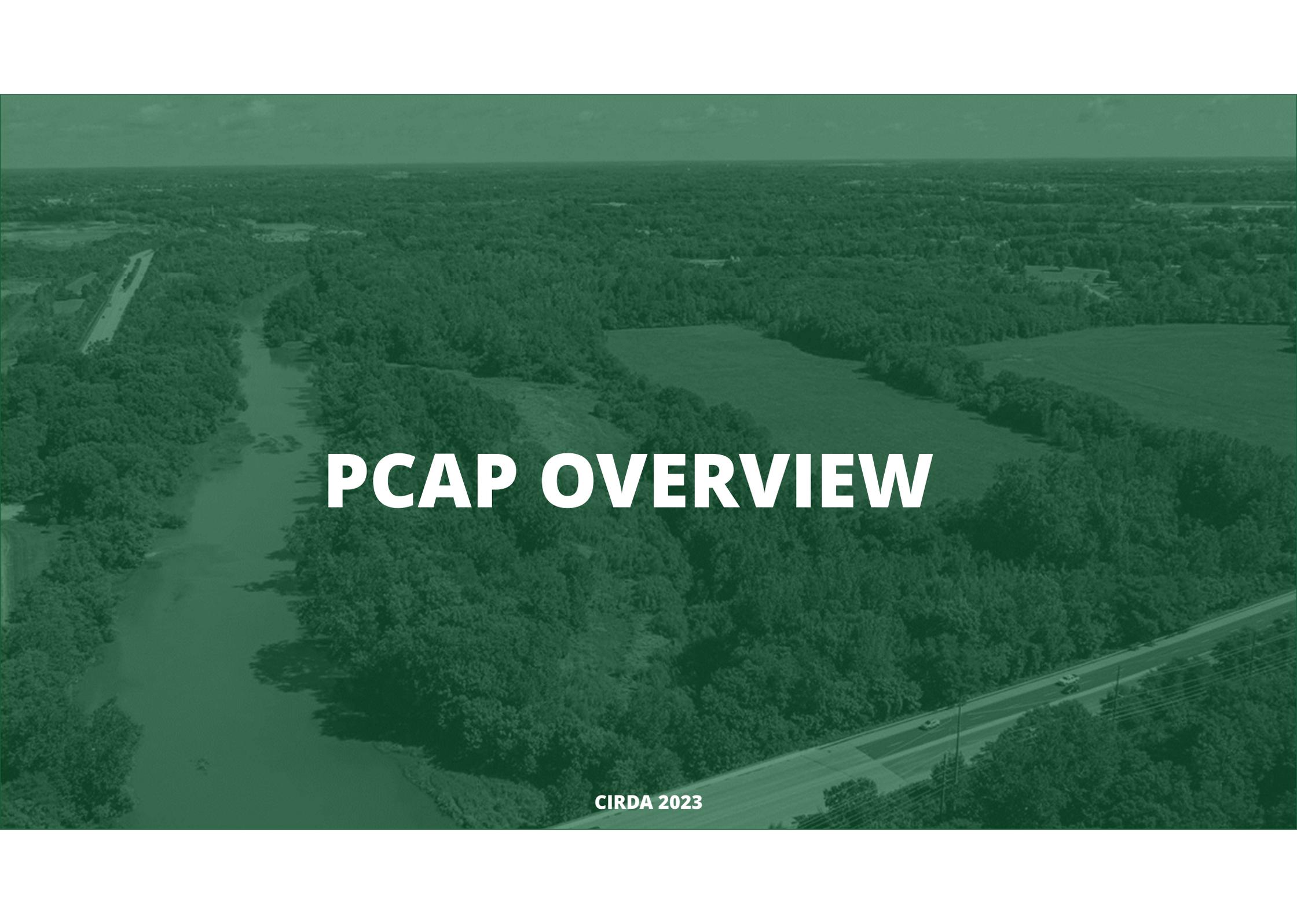IMPO will manage community input as it relates to the CPRG opportunity.

ENVIRONMENTAL RESOURCES MANAGEMENT

ERM was selected to manage the CPRG opportunity on behalf of the region.

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Timeline

- There are three components of Phase 1 funding:

  Priority Climate Action Plan (PCAP) – due March 2024

  Comprehensive Climate Action Plan (CCAP) - due Fall 2025

  Status Report – due Fall 2027

- Work on the PCAP regional plan and associated deliverables is underway, with the following timeline:

OCTOBER 2023
Develop GHG Inventory

NOVEMBER 2023
Develop Priority GHG Actions

FEBRUARY 2024
Complete Regional Plan

MARCH 2024
Submit Project Funding Proposals

PCAP OVERVIEW

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PCAP Regional Plan

- **GHG Inventory** – Develop a simplified inventory of GHG emissions across sectors in the region.

- **Priority GHG Strategies** – Identify and quantify list of priority, implementation-ready GHG strategies.

- **Benefits Analysis** – Perform a qualitative analysis of benefits to low-income and disadvantaged communities.

- **Review of Implementation Authority** – Describe existing authority to implement priority GHG strategies, or whether it needs to be obtained.

- **Intersection with Other Funding** – Identify available funding beyond CPRG Phase 2 grants to implement priority GHG strategies .

- **Meaningful Engagement** – Describe efforts to involve the public in the development of the regional plan.

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Priority GHG Strategies

- Priority GHG strategies will be developed with input from extensive stakeholder engagement.

- The regional plan will focus on identifying opportunities for GHG reductions in the following sectors:

Power

Transportation

Industrial

Agriculture

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Stakeholder Engagement

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Key Stakeholders & Approach

- The Project Team is engaging a diverse set of public, private, and nonprofit stakeholders throughout Central Indiana to provide input and inform the development of the regional plan. Stakeholder engagement includes:

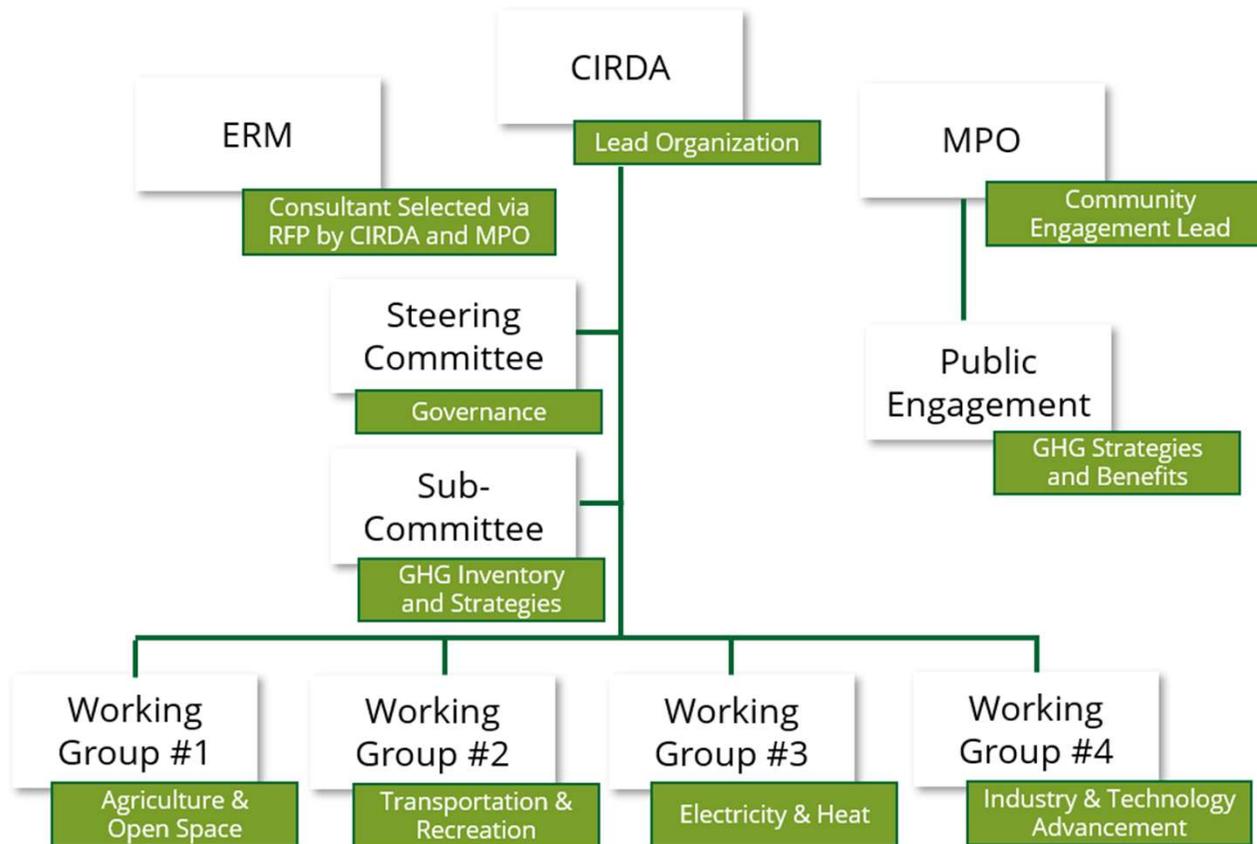**Steering Committee**

Subcommittee

Working Groups

Public Engagement

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Key Stakeholders & Approach

```
                              CIRDA
    ERM                   [Lead Organization]        MPO
[Consultant Selected via                         [Community
 RFP by CIRDA and MPO]                            Engagement Lead]

         Steering
         Committee
         [Governance]                        Public
                                             Engagement
         Sub-                                [GHG Strategies
         Committee                            and Benefits]
         [GHG Inventory
          and Strategies]

Working          Working          Working          Working
Group #1         Group #2         Group #3         Group #4
[Agriculture &   [Transportation  [Electricity &   [Industry & Technology
 Open Space]      & Recreation]    Heat]            Advancement]
```

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Steering Committee

- **Members:** Chaired by CIRDA and IMPO, Steering Committee members include representatives from municipalities across the Indianapolis-Carmel-Anderson metropolitan statistical area (MSA).

- **Role:** <u>Responsible for providing input on the development of EPA deliverables, including the GHG inventory, GHG priority actions, a plan for governance authority, and funding strategies to be submitted as part of regional plan.</u>

- **Commitment:** Attend 6-7 meetings from September 2023-January 2024 to support PCAP development. Attend 5-6 meetings from Summer 2024-Spring 2025 to support CCAP development. All meetings will be 1-2 hours in length and include a virtual participation option.

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- CIRDA
- IMPO
- Avon
- Bargersville
- Carmel
- Fishers
- Franklin
- Indianapolis
- Lawrence
- McCordsville
- Noblesville
- Plainfield
- Speedway
- Westfield
- Zionsville

*Participants list will continue to be updated pending additional confirmations.

Subcommittee

- **Members:** Consists of representatives from state agencies and academic institutions.

- **Role:** Responsible for sharing data and participating in the development of the GHG inventory, along with the option to provide input on the development of GHG priority actions to be submitted as part of regional plan.

- **Commitment:** Attend 3-4 meetings from September 2023-January 2024 to support PCAP development. Attend 3-4 meetings from Summer 2024-Spring 2025 to support CCAP development. All meetings will be 1-2 hours in length and include a virtual participation option.

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Working Groups

- CIRDA will leverage the subject matter expertise of regional stakeholders, including private sector, non-profit, and community groups, through a series of four working groups.

- Responsible for providing input on the development of the GHG priority actions and community benefits.

- Four Working Groups to include:

#1 - Agriculture & Open Space

#2 - Transportation & Recreation

#3 - Electricity & Heat

#4 - Industrial & Technology Advancement

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Public Engagement

- A significant focus of the CPRG opportunity is community input, specifically centered on engaging low-income and disadvantaged communities.

- Projects selected for implementation funding will directly impact communities in the region.

- Public engagement activities:

  - Attending **10 community events** across the region

  - Disseminating a **public survey** to gather public input on GHG strategies and associated benefits

  - Developing a **CIRDA homepage** to share progress and collect public feedback

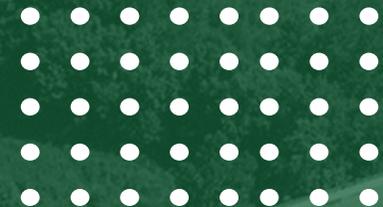 - Sending **newsletter updates** on plan developments

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TAKE THE COMMUNITY SURVEY
(scan QR code)

FOLLOW PLAN PROGRESS AND SHARE FEEDBACK

VISIT CIRDA'S WEBSITE FOR MORE INFORMATION:
www.centralindianarda.org/epa-grant

Public Engagement

Community Events Scheduled to Attend:

- Garfield Park Farmers Market on 9/16
- Partners for Pollution Prevention and Trade Show on 9/20
- Car Free Day Indy on 9/22
- Indiana Latino Expo on 9/23
- Anderson Farmers Market on 9/30
- IDEM's Indianapolis Public Meeting on 10/12

Focus:

- Engaging public on the survey to gather input on GHG strategies and associated benefits.

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TAKE THE COMMUNITY SURVEY (scan QR code)

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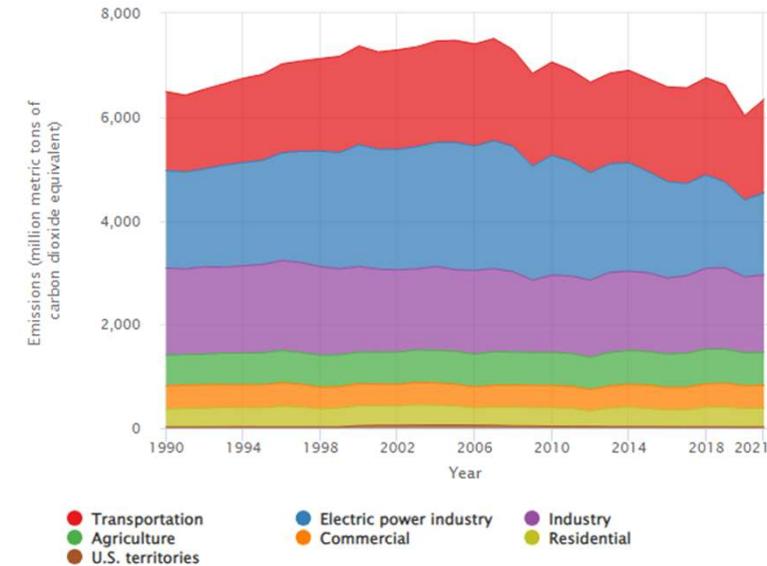# GHG Inventory

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GHG Inventory

What is a GHG Inventory?

- A list of emission sources and their associated GHG emissions quantified using standardized methods.

- Emission source examples:
  - Fuel combustion (stationary and mobile)
  - Electricity consumption
  - Landfill operations

- GHGs = gases that trap heat in the atmosphere
  - Carbon Dioxide
  - Methane
  - Nitrous Oxides
  - Fluorinated Gases

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U.S. Greenhouse Gas Emissions by Economic Sector, 1990–2021

Emissions (million metric tons of carbon dioxide equivalent)

- Transportation
- Agriculture
- U.S. territories
- Electric power industry
- Commercial
- Industry
- Residential

Source: U.S. EPA's Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2021.
https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks

Source: Inventory of US Greenhouse Gas Emissions and Sinks, EPA, 2023.
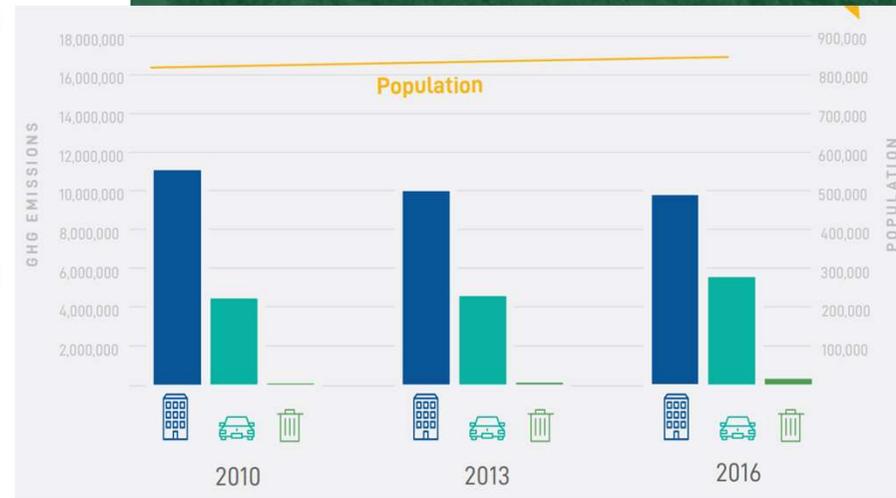
GHG Inventory

Why complete an inventory?

- Identify sectors driving the highest amounts of GHG emissions

- Create a baseline for tracking emission trends

- Provide a basis for developing a climate action plan

- Track progress of emission reduction efforts

- Pivotal to accessing competitive CPRG funding and other funding opportunities

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Indianapolis GHG Emissions (MTCO$_2$e) by Sector, Year and Population

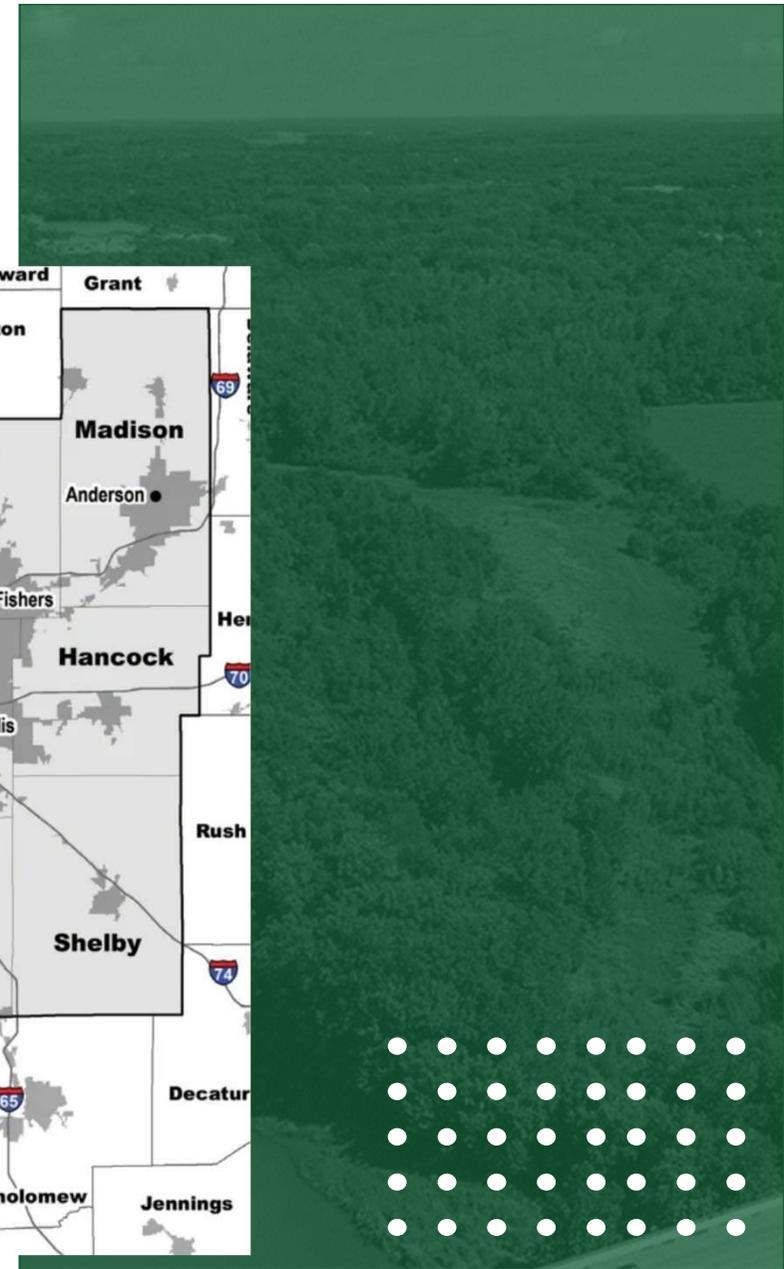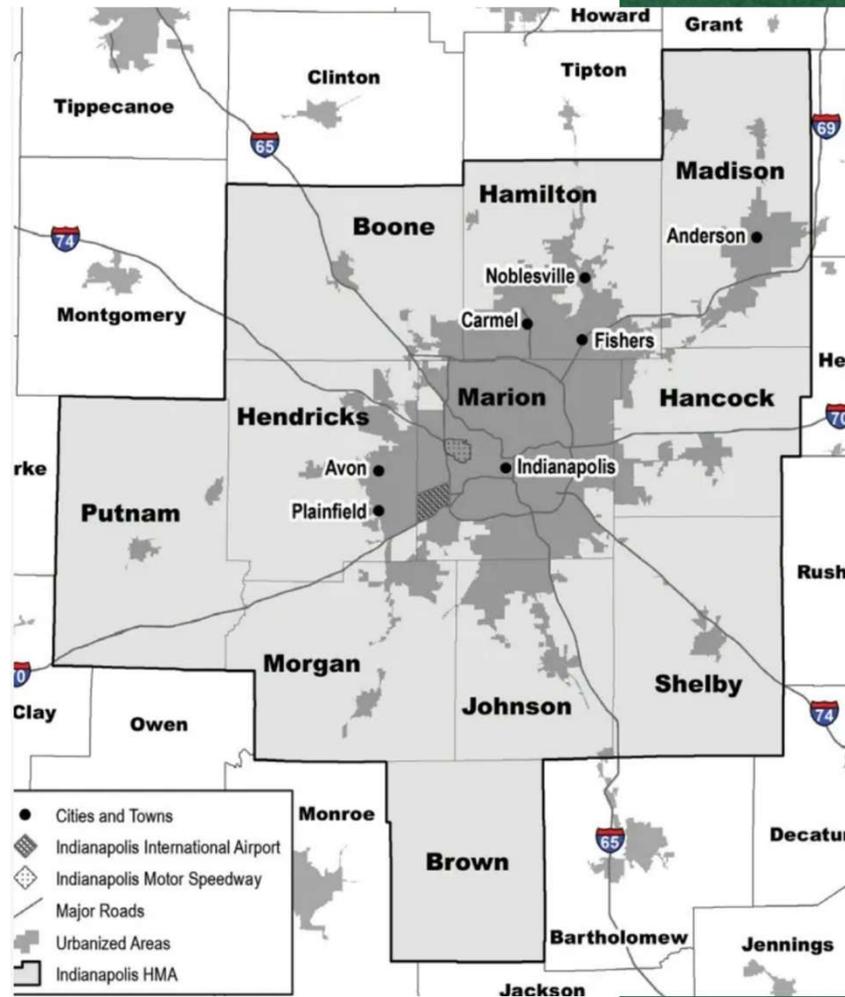🏢 **BUILDINGS**

🚗 **TRANSPORTATION**

🗑 **WASTE**

[25]All data on pages 23-24: City of Indianapolis & Marion County, 2018

Source: Thrive Indianapolis, City of Indianapolis & Marion County, 2019.

GHG Inventory Boundary

GHG inventory will be taken at the county level – including all 11 counties represented by the Indianapolis-Carmel-Anderson MSA.

EPA's GHG Inventory Tool

EPA created a free Local GHG Inventory Tool to help local governments **evaluate GHG emissions associated with community-wide activities**.

- Excel-based tool, based on ICLEI's Global Protocol for Community-Scale GHG Emissions.

- Allows for locality-specific data entry or use of preloaded default data and emission factors from federal agencies.

- Inventory tool can be easily updated for future years after initial setup.

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EPA's GHG Inventory Tool

Inventory Control Sheet

Complete the 4 steps below to set up the tool for your community.

1) Please enter the name of your city, the inventory year, and population below.

City
Year
Population

2) The sectors included in the community inventory are defined below. These are the main sectors defined in the Global Protocol for Community-Scale GHG Emissions and the main sectors used to categorize GHG emissions. These sectors will be used to standardize data entry for calculations throughout the tool.

1 Residential
2 Commercial/Institutional
3 Industrial
4 Energy Generation

3) Select the eGRID subregion where your community is located and enter utility-specific emissions factors, if available, for the utilities that provide electric service for your community.

These utility selections and emission factors will be used to help calculate your emissions throughout the tool.

The eGRID subregion emission factors will be used to estimate location-based emissions. Utility-specific emissions factors will be used to estimate market-based emissions.

Please see the map below the table to identify the eGRID subregion that includes your community and continue to Step 4 below once this table is complete. For help determining your eGRID subregion, visit EPA's website by clicking the map below.

EPA's GHG Inventory Tool

Community Module includes 9 emission sources:

- Stationary Fossil Fuels Combustion

- Mobile Fossil Fuel Combustion

- Landfill and Landfill Gas Control

- Wastewater Treatment

- Electricity Consumption

- Water Consumption

- Agriculture & Land Management

- Urban Forestry

- Waste Generation (offsite disposal)

  - Waste Use (offsite supply/treatment)

- Additional Sources

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EPA's GHG Inventory Tool

Tool Data Entry:

Electricity Use - Entry

Data Entry & Calculations

On this sheet, you can enter electricity use for each entity for which you have data in order to calculate indirect emissions associated with the use of grid-supplied electricity consumed by the communit electricity purchases through a contractual agreement. In this module, contractual agreements can include energy attribute certificates (RECs, GOs, etc.), direct contracts (PPAS, etc.), and residual grid m electricity consumed within the community's geopolitical boundaries. Include the totals from the Local Government calculations within the commercial/institutional sector. For additional information o the Global Protocol for Community-Scale Greenhouse Gas Emissions.

To use the form below, first enter the data for a given unit, then click "Add/Update Record." The data will be saved, and the fields will remain filled in. The purpose of this process is to facilitate similar d **confirmation message when the record has been successfully added**. At any point, you may click "Reset Form" to clear all fields. (If you would like to enter more than one record at a time, you may pro

If you would like to change any aspect of a previous entry, select "Edit Record." A drop-down menu will appear. Select the entry you would like to change, make changes to the entry fields as needed, th the "Delete Record" button. A dropdown menu will appear for you to select the entry to delete. After you confirm that you would like the entry deleted, the saved data will be erased.

For more information on the methodologies for estimating emissions from market- and location-based methodologies, see the User's Guide for the Local Greenhouse Gas Community Inventory Tool. Fo instruments, see Box 4 within the User's Guide. **Note: Any electricity consumption from electric vehicles should be accounted for as electricity under Scope 2 on this tab.**

Describe the electricity consuming unit you are entering

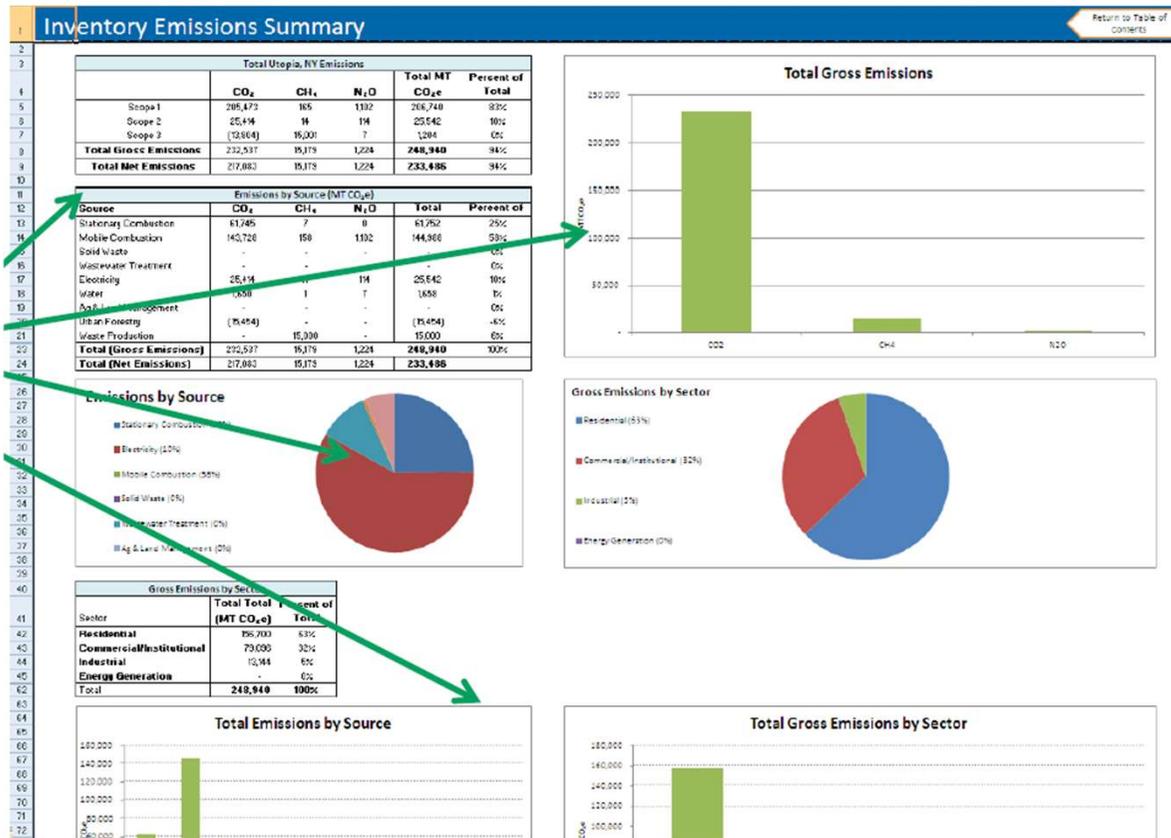| ID#	Unit Description (e.g., facility name)	Facility Type (if applicable)	Sector	Is thi
1				No

2) Enter the activity data for the year

Electricity Purchased (kWh)	Electric Utility
	RFCW eGRID subregion

EPA's GHG Inventory Tool

After completion, tool will generate an Inventory Summary:

Next Steps

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Respond to Data Request

Following this meeting, a data request document will be sent to each participant requesting data to be provided prior to Meeting #2:

	ID No.	Scope	Emissions Sector	Data Requested	Description	Data Necessity	Value
	1	1		Description of all fuel consuming units	Description	Necessary	
	2	1			Facility type (if applicable)	Optional	
	3	1	Stationary Combustion of Fuels		Sector (residential, commercial, industrial, and energy generation)	Necessary	
	4	1			Fuel type (diesel, natural gas, gasoline, LPG, propane, butane, oil no. 5, oil no. 6, jet fuel, residential/industrial/commercial/electric power coal, digestor gas, distillate fuel oil, kerosene)	Necessary	
				Per unit annual activity data			
	5	1			Fuel consumption (gas = mcf; liquid fuels = gal; coal = short tons)	Necessary	
	6	1			Description of vehicle or vehicle group	Necessary	
	7	1			Sector (residential, commercial, industrial, and energy generation)	Beneficial	
	8	1		Vehicle or vehicle group description	Vehicle Year	Necessary	
	9	1			Vehicle Type (passenger car, light truck, heavy-duty vehicle, motorcycle, agricultural equipment, construction equipment, utility / recreational equipment, aircraft, ship or boat, locomotive)	Necessary	
	10	1	Mobile Combustion of Fossil Fuels		Vehicle model (optional)	Optional	

CIRDA GHG Inventory Data Request

Community Name: _____

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Attend Future Meetings

- **October 9:** Data Request Submission Deadline
  - Please submit data requested to CIRDA and ERM

- **October 11:** Steering & Subcommittee Meeting #2
  - Agenda: Data request feedback and discussion

- **Early November:** Steering & Subcommittee Meeting #3
  - Agenda: Overview of preliminary inventory

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Support Public Engagement

- Send the Project Team information about **upcoming public events** that would be helpful to attend.

- Share the **public survey** with your communities to help us gather public input on GHG strategies and associated benefits.

- Send **newsletter updates** to your community networks to help share updates on plan developments.

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TAKE THE COMMUNITY SURVEY
(scan QR code)

FOLLOW PLAN PROGRESS AND SHARE FEEDBACK

VISIT CIRDA'S WEBSITE FOR MORE INFORMATION:
www.centralindianarda.org/epa-grant

Submit GHG Strategies Ideas

- The Project Team is **collecting ideas** for GHG reduction strategies and/or projects.

- **Purpose:** to start gathering input on what types of potential GHG reduction opportunities be of interest to your community.

- Following this meeting, **an electronic form will be shared with Steering Committee and Subcommittee members** to start submitting ideas.

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THANK YOU

CENTRAL INDIANA REGIONAL DEVELOPMENT AUTHORITY

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