



CLIMATE POLLUTION
REDUCTION GRANT

Indiana Climate Pollution Reduction Grant Public Meetings Phase 2 February 2024

on.IN.gov/cprg



Introductions



Indiana Department of Environmental Management

The Indiana Department of Environmental Management's mission is to implement federal and state regulations to protect human health and the environment while allowing the environmentally sound operations of industrial, agricultural, commercial, and governmental activities vital to a prosperous economy.



ClimeCo

ClimeCo is a global sustainability company advancing the low-carbon future with market-based solutions. ClimeCo provides comprehensive, vertically integrated services to help clients maximize their environmental assets, minimize regulatory costs, and enhance their sustainability impact.



Agenda

Welcome

Grant Program Recap

Measures Selected & Technical Analyses

PCAP Preview

Next Steps

Grant Overview & Goals

The Environmental Protection Agency launched the Climate Pollution Reduction Grant program. Hoosiers across Indiana have contributed to both phases of the grant.



Phase 1: Planning Grant

Awarded to Indiana in fall 2023, the Phase 1 grant is funding the creation of a Climate Action Plan to benefit communities, create jobs, & reduce air pollution.

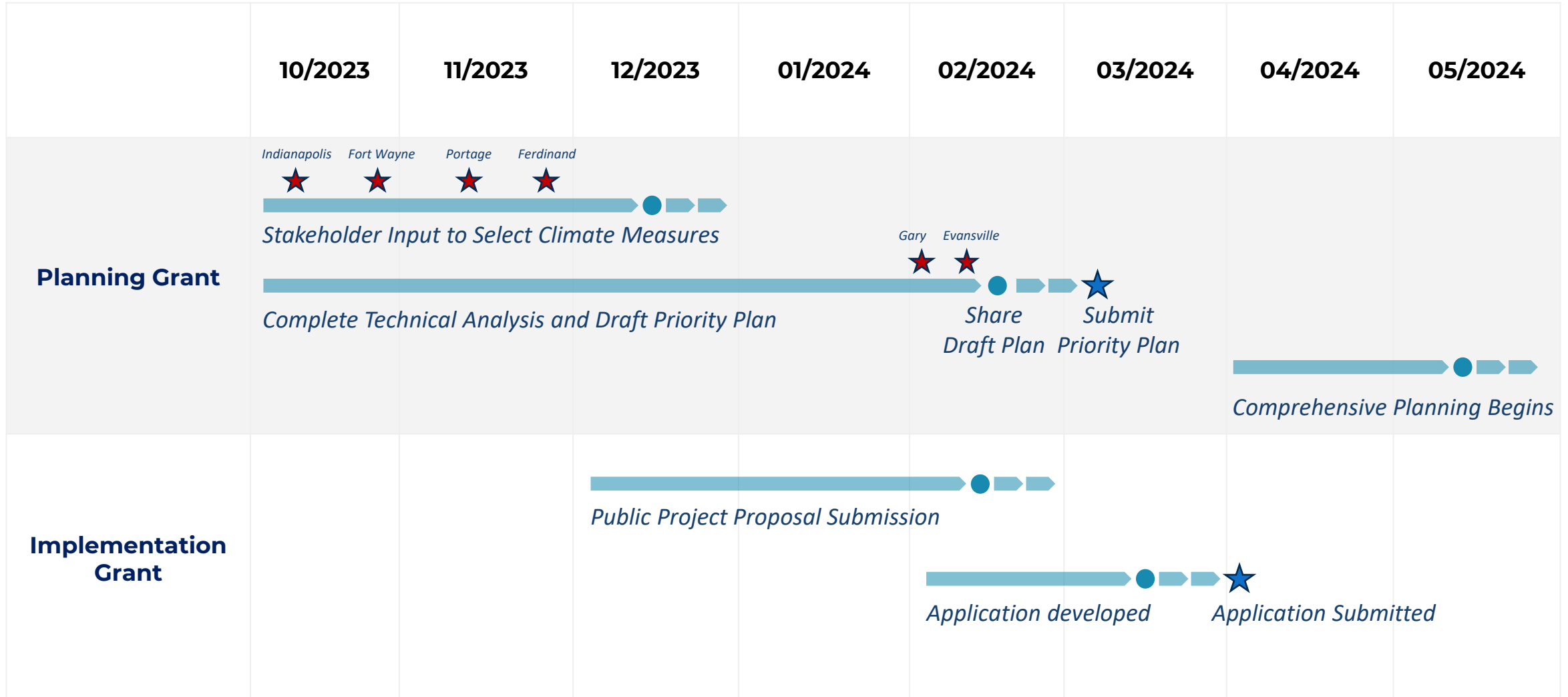


Phase 2: Implementation Grant

IDEM plans to apply to the \$4.6 billion competitive grant pool. Awarded funds will be channeled to organizations that submitted emissions-reducing projects.



Climate Pollution Reduction Grant Timeline



Public Meeting ★
 Deadlines ★

For more information, please visit: on.IN.gov/cprg

Selection of Climate Measures

A combination of stakeholder preferences, local climate action plans, technical review, and national best practices were used to select broad priority measures for the state.

**Stakeholder
Input**



**Job creation
potential**



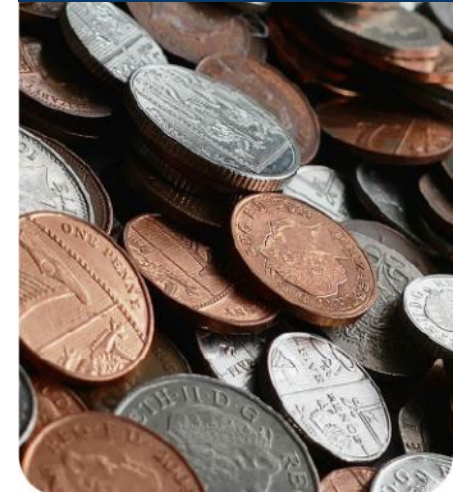
**Pollution
reduction**



**Benefits to
communities**



**Cost & funding
availability**





Stakeholder Feedback Collection and Implementation

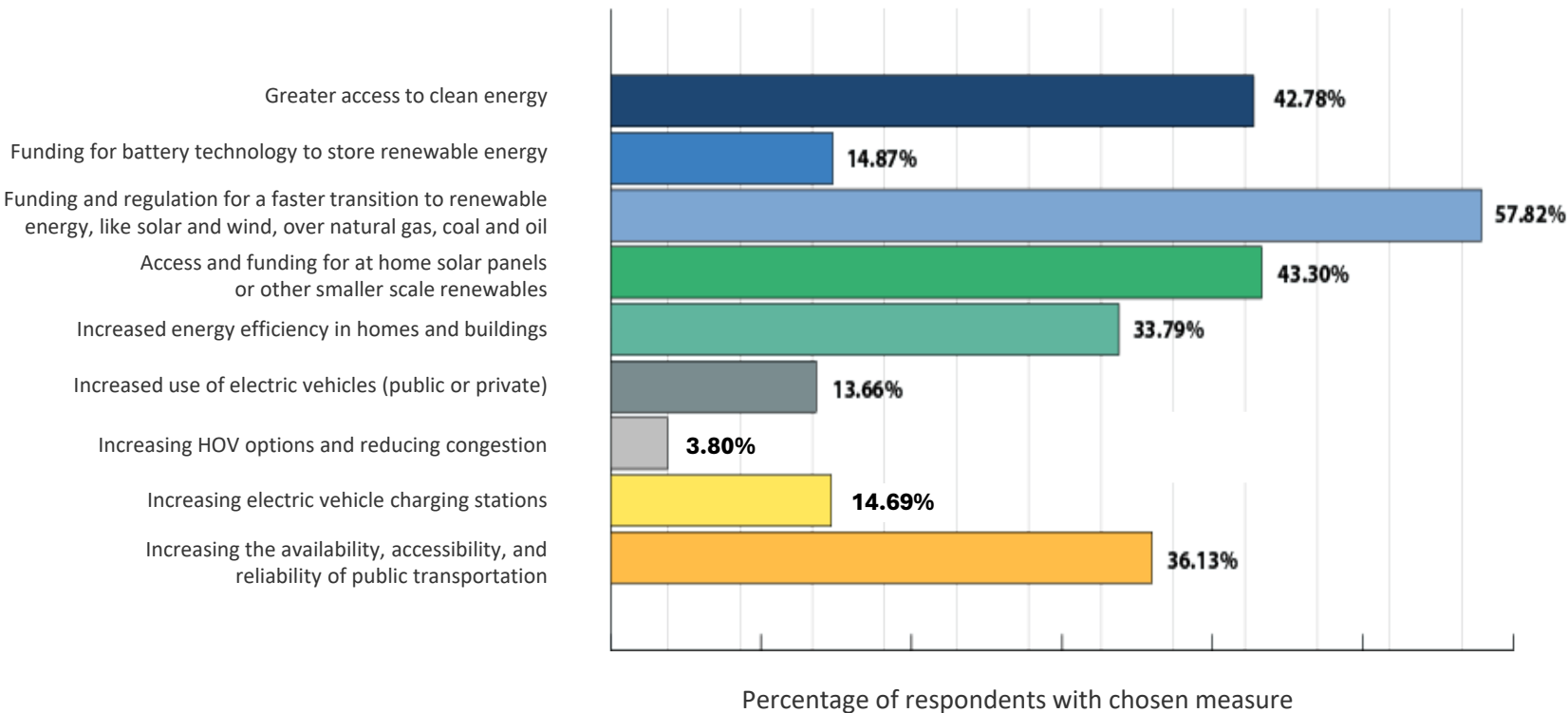
>10,000
comments reviewed

1,500 Hoosiers participated
across surveys, public meetings, and
interviews

>20% of survey respondents
come from priority communities*

58 of 66 priority communities*
represented by survey respondents

Top 5 actions for Hoosiers, communities, and organizations



“
Indiana can be a leader in slowing the climate crisis and in the years ahead Indiana can access billions of dollars of federal funding to advance clean energy, green transit, sustainable agriculture, environmental justice and more.
Public Meeting Attendee

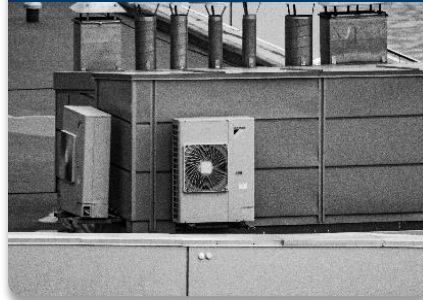
*Priority communities as defined here represent low-income and disadvantaged areas as defined by federal tools including EJScreen. Survey respondents self-identified using zip codes.

10 Priority Climate Measures

Utility Renewable Energy



Building Energy Efficiency



Light-duty Electric Vehicle Adoption



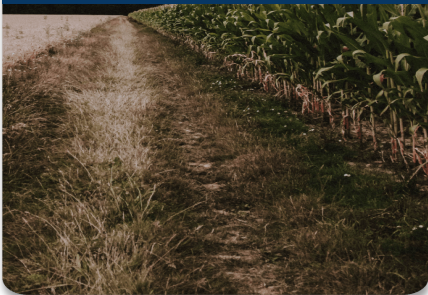
Reduce Vehicle Miles Traveled



Landfill Diversion & Composting



Increase Carbon Sequestration (Ag)



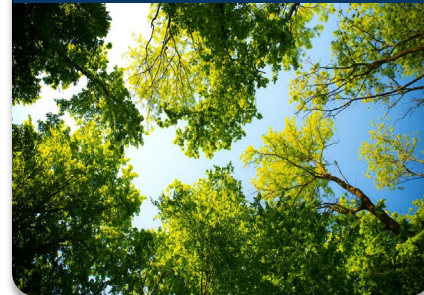
Distributed/On-site Renewables



Electrify Industrial Processes



Expand Green Spaces



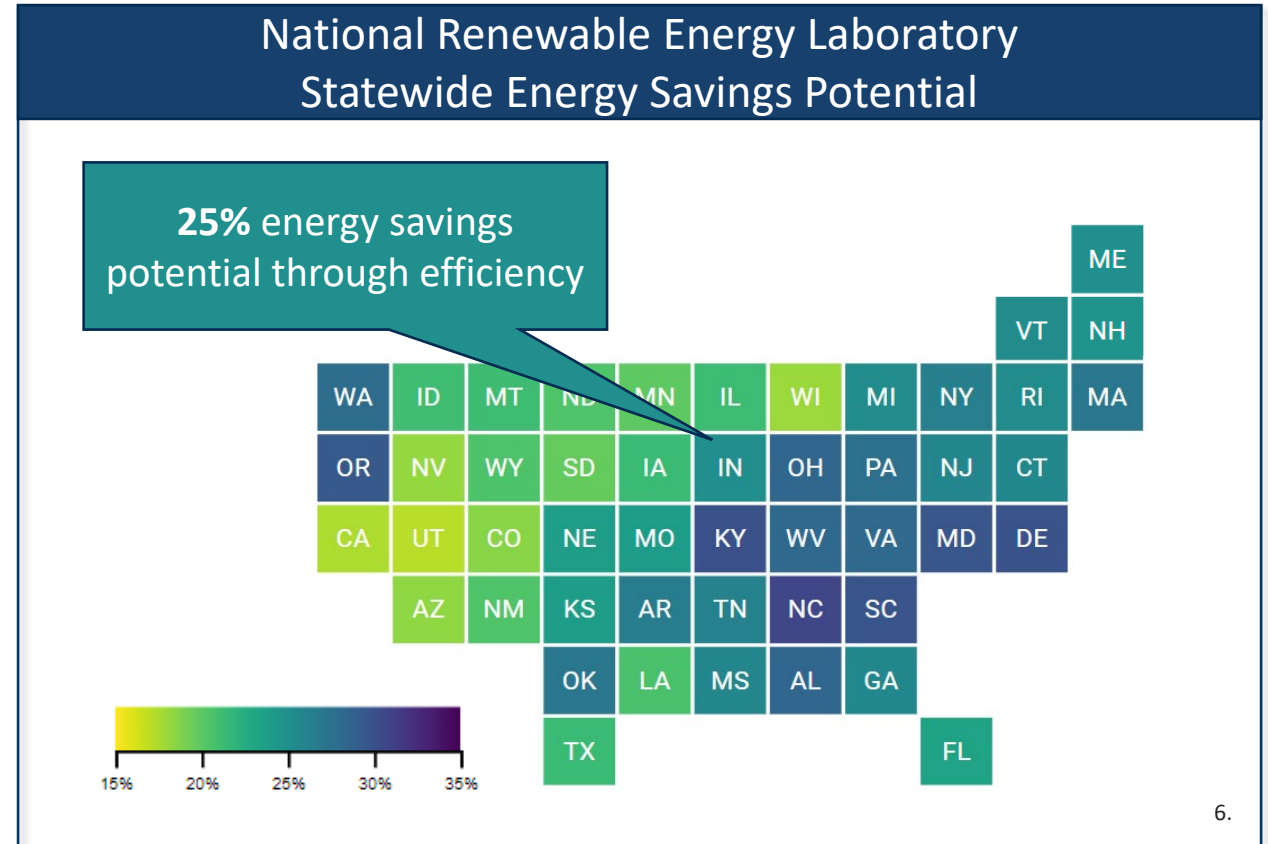
Increase Renewable Natural Gas



Climate Measures Deep Dive

Technical Analyses

- Emission Reduction Potential
- Co-Pollutant Analysis
- Disadvantaged Communities (LIDAC) Benefits Analysis

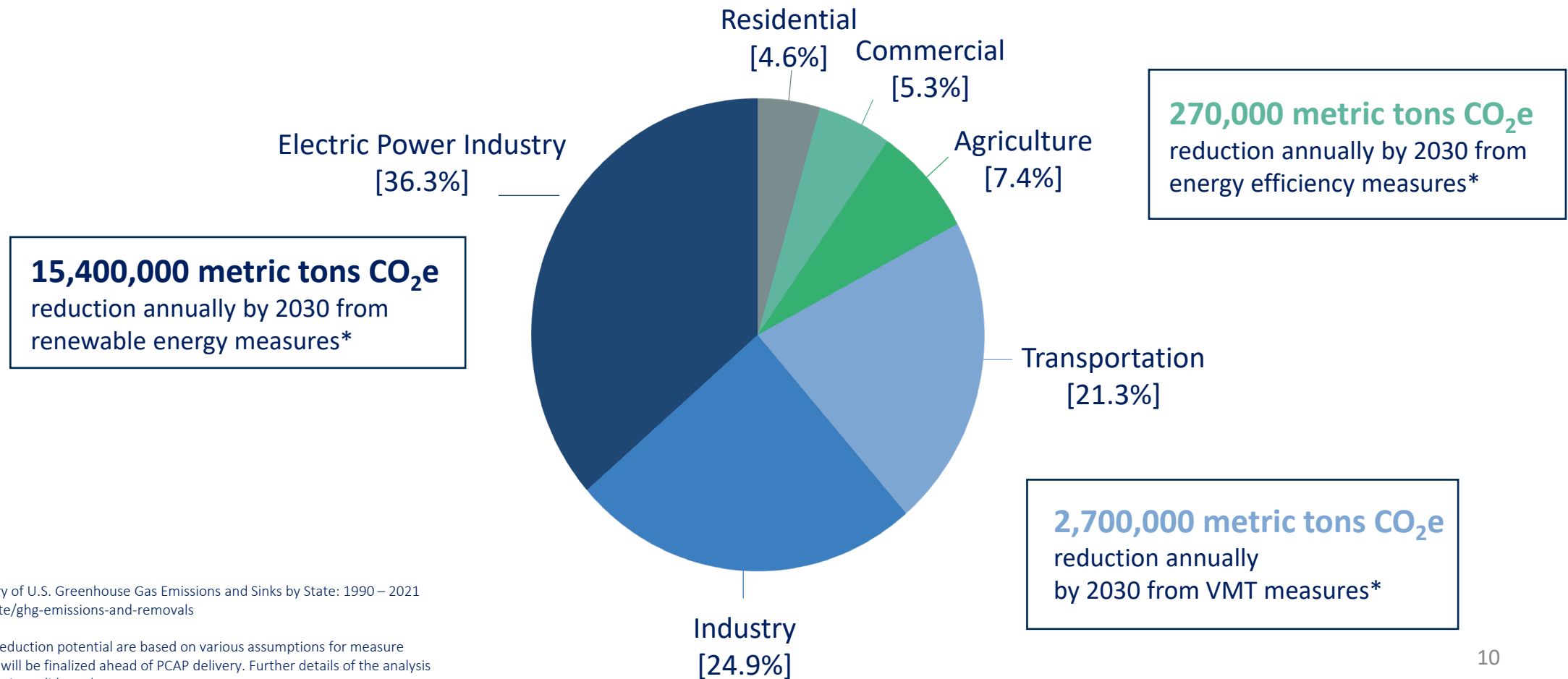




Climate Measure Potential

Greenhouse Gas Emissions by Economic Sector (2021)

Emissions in million metric tons of carbon dioxide equivalent



Source U.S. EPA's Inventory of U.S. Greenhouse Gas Emissions and Sinks by State: 1990 – 2021
epa.gov/ghgemissions/state/ghg-emissions-and-removals

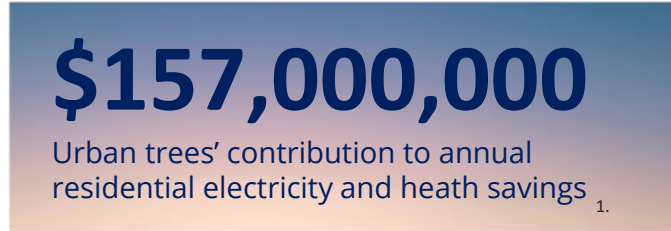
*Estimates for emissions reduction potential are based on various assumptions for measure adoption and growth, and will be finalized ahead of PCAP delivery. Further details of the analysis are available in the assumptions slide and upon request.

Co-benefits of Climate Measures

A review of local and national research identified many potential benefits of priority measures in Indiana. Benefits include financial savings, job creation, and pollution reductions.



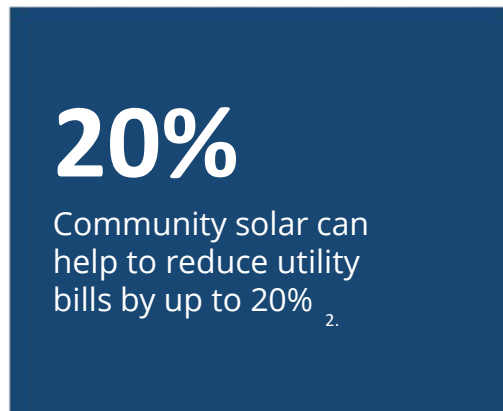
6x
Composting can support up to six times as many jobs as landfilling or incineration ³.



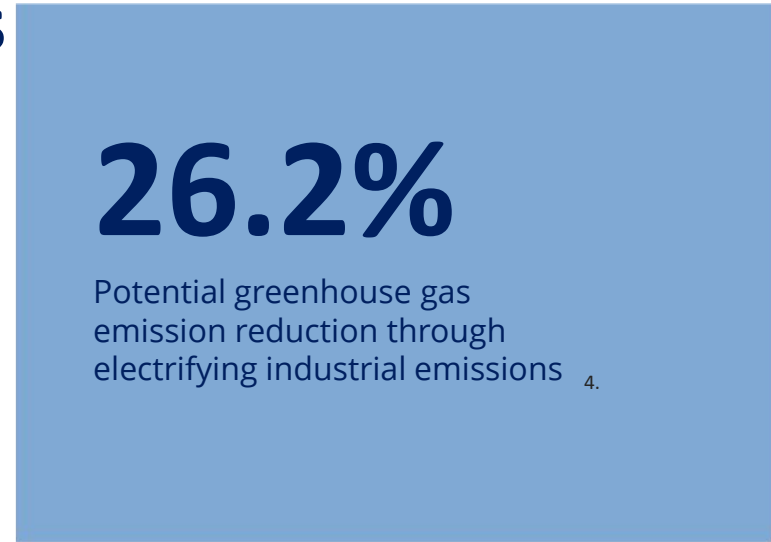
\$157,000,000
Urban trees' contribution to annual residential electricity and health savings ¹.



1.3 million
Tons of carbon dioxide removed by urban trees in Indiana ¹.



20%
Community solar can help to reduce utility bills by up to 20% ².



26.2%
Potential greenhouse gas emission reduction through electrifying industrial emissions ⁴.



29.2%
Increase in employment demand for green jobs in Indiana over the next five years ⁵.

PCAP Preview

Draft PCAP Available 2/12

1. Introduction

- 1.1 U.S. EPA Climate Pollution Reduction Grants (CPRG)
- 1.2 Indiana's Emissions
- 1.3 Indiana's Communities

2. Priority Climate Action Plan (PCAP) Development Process

- 2.1 Approach to Stakeholder Engagement
- 2.2 Measure Identification, Revision, and Prioritization
- 2.3 Community Benefits Analysis
- 2.4 Technical Assessment
- 2.5 Authority to Implement

3. Summary of Climate Measures

3.1 Measures Description

- Stakeholder Support
- Emission Reduction Potential





Implementation Grant Projects Submitted

Over 100 project proposals submitted covering Electric Power, Agriculture, Transportation, Industry, and Commercial & Residential Buildings.

Northwest Indiana

Project submissions included:

- 4 non-profit projects
- 2 municipal programs
- 2 industrial emission reduction programs

Projects submitted addressed the following areas:

- 3 projects that include solar
- 1 program reducing vehicle miles traveled
- 3 industrial electrification projects
- 3 projects on electric vehicle charging and fleet
- 1 methane leak reduction program

PCAP measures met: #1, #2, #3, #4, #6, #9

Statewide

Project submissions included:

- 3 non-profit programs
- 2 projects on agriculture carbon sequestration

Projects submitted addressed the following areas:

- 2 solar projects
- 1 electric vehicle charging project
- 1 energy efficiency program
- 2 agricultural projects

PCAP measures met: #1, #2, #3, #4, #6, #8



Next Steps

- 2/2 Draft PCAP Posted Online
- 2/8 Final Phase 2 Public Meeting
- 2/15 Part 2 Project Proposals Due
- 2/23 PCAP Finalized
- 3/1 PCAP Submitted**
- 3/31 Implementation Grant Application Finalized
- 4/1 Implementation Grant Application Submitted
- 4/2 Comprehensive Plan Kickoff



Ways to Engage

Find the resources to learn more about this effort, share your perspective, and stay engaged throughout the planning process:

1) Information Hub



Scan me for access

2) Contact Information

Phone: 317-233-8470

Email: cprg@idem.IN.gov

3) PCAP Draft

Coming Soon

Feb 12, 2024

Information Hub: on.IN.gov/cprg



Public Comment

We're Listening

- Comments on the draft PCAP
- Questions about the process
- Priorities, benefits, or concerns

Comment Format

- 3 minutes each
- Comments related to CPRG only
- Comments can also be submitted to cprg@idem.IN.gov



References

1. **"Urban Greening Report."** *Indiana University Bloomington*, 2018, urbanforestry.indiana.edu/doc/iccia_urbangreenreport_2018.pdf.
2. **"Community Solar for Indiana."** *Solar United Neighbors*, solarunitedneighbors.org/solar-advocacy/community-solar-for-indiana/.
3. **"Composting 2022 Census."** *Institute for Local Self-Reliance*, 2022, ilsr.org/composting-2022-census/.
4. **"Indiana Industrial Electrification Factsheet."** *Renewable Thermal Alliance*, 2018, renewablethermal.org/wp-content/uploads/2018/06/Indiana-Industrial-Electrification-Factsheet.pdf.
5. **"Green Jobs Now: Indiana."** *Working Nation*, 2022, workingnation.com/wp-content/uploads/2022/07/Green_Jobs_Now_Indiana.pdf.
6. **"State Factsheets."** *National Renewable Energy Laboratory*, Restock, 2017, [Indiana Residential Energy Efficiency Potential \(nrel.gov\)](http://nrel.gov).



Assumptions

Emissions reductions calculations:

1. Renewables:

1. 15.4 MMT CO₂e (million metric tons) annually in 2030 compared to the baseline year.
2. Based on 25% renewable energy generation by 2030 and a 2021 baseline.

2. Transportation (VMT):

1. 2.7 MMT CO₂e (million metric tons) annually in 2030 compared to the reference case.
2. Based on a 10% reduction in VMT compared to the reference case.
3. The reference case includes:
 1. INDOT forecast of 27% VMT growth between 2015-2045
 2. EV adoption rate of 5.4% in 2030, based on the 2023 Annual Energy Outlook (AEO) by the Energy Information Administration (EIA)
 3. Renewable energy generation rate of 25% by 2030.

3. Transportation (EV):

1. 0.20 MMT CO₂e (million metric tons) annually in 2030 compared to the reference case.
2. Based on 5.4% EV adoption rate in 2030 (reference case of 2023 AEO), and 25% renewable energy generation by 2030.



Thank You