



Methodology for Emissions Reduction Measures - Updated 1/9/2024

PROGRAM OVERVIEW

The Indiana Department of Environmental Management (IDEM) is participating in the U.S. EPA's Climate Pollution Reduction Grant (CPRG) Program and was awarded a \$3 million planning grant in July 2023. Through this program, IDEM aims to promote sustainability, enhance our state's resiliency to environmental challenges, and safeguard our natural resources.

The CPRG program provides \$5 billion in grants to states, local governments, tribes, and territories to develop and implement ambitious plans for reducing greenhouse gas (GHG) emissions and other harmful air pollution. Authorized under Section 60114 of the Inflation Reduction Act, this two-phase program provides \$250 million for noncompetitive planning grants, and approximately \$4.6 billion for competitive implementation grants.

Planning grant recipients are using the funding to design climate action plans that incorporate a variety of actions to reduce emissions from across their economies in six key sectors (electricity generation, industry, transportation, buildings, agriculture/natural and working lands, and waste management). Planning grant recipients must submit the following deliverables to the EPA:

- March 1, 2024 – Priority Climate Action Plan (PCAP)
- April 2024 – Implementation Grant Application
- Summer/Fall 2025 – Comprehensive Climate Action Plan (CCAP)
- Summer/Fall 2027 – Status Report

IDEM is working with [ClimeCo](#), a global sustainability solutions advisor, to evaluate and quantify actions with the potential to benefit communities and create jobs while reducing air pollution.

STEPS FOR EVALUATION AND QUANTIFICATION OF POLLUTION REDUCTION MEASURES

According to the CPRG guidance, the PCAP must include a focused list of near-term, high-priority, implementation-ready measures. The selection of pollution reduction actions should be based on GHG emissions information and focus on achieving the most significant GHG reductions possible, while considering other relevant planning goals. The rationale for selecting measures for the plan may also include other factors, such as reduction of co-pollutants, benefits to low income and disadvantaged communities, cost-effectiveness, or other economic factors.

An initial screening of potential measures was performed in October 2023 and the methodology is available on [IDEM's website](#). Proposed measures were then shared publicly for stakeholder feedback.

STAKEHOLDER ENGAGEMENT & INPUT COLLECTION

Stakeholders shared more than 10,000 comments on the proposed plan. Comments were collected through public meetings in Indianapolis, Portage, Fort Wayne, and Evansville. Meetings were live-



streamed, recorded, and published online to make the information widely accessible. Comments were also shared through an Indianapolis-specific survey (courtesy of the Central Indiana Regional Development Authority), an Indiana-wide survey, and through IDEM’s CPRG email address. As many organizations and municipalities have developed climate plans in coordination with local communities, these local plans were also considered key sources of input. Stakeholder priorities, preferred measures, and ideas for additional measures were all incorporated to revise the list of priority measures included in the table below.

Engagement with low-income and disadvantaged communities (LIDAC) is both ongoing and evolving with public input. Stakeholder mapping is also occurring in parallel with broader engagement. Community members participated in public meetings, survey results, municipal plans, and in targeted interviews. Members of communities or advocacy organizations are invited continue to identify themselves and to reach out directly via cprg@idem.in.gov so their feedback can be prioritized.

In response to stakeholder feedback and for greater transparency, meeting recordings as well as survey results are publicly available on [IDEM’s website](#). Up to two additional meetings are currently being planned for 2024 in response to stakeholder requests and will be livestreamed to be available to broader Indiana stakeholders.

Next steps:

- **Stay involved:** Stakeholders are asked to sign up for CPRG program updates via [IDEM’s website](#) and can reach out through email at cprg@idem.in.gov. In particular, members of low income or disadvantaged communities are encouraged to reach out directly.
- **Submit projects:** On April 1, 2024, IDEM will apply for the second phase of the Climate Pollution Reduction Grants (CPRG) Program: Implementation Grants General Competition. All stakeholders are now invited to submit proposals for projects aligned with priority measures to be included in the grant application. Details can be found on [IDEM’s website](#).
- **Finalize PCAP:** The revised priority measures listed below will be used to draft the Priority Climate Action Plan. The draft plan will be shared publicly for final input in February 2024 and will be submitted in March 2024.

REVISED ACTIONS WITH STAKEHOLDER INPUT

Various measures were prioritized following stakeholder feedback, including rooftop solar initiatives and alternative modes of transportation. Other measures were de-prioritized based on stakeholder comments. The following revised measures are currently proposed for the Priority Climate Action Plan.

Sector	Measure	Quantified Action	Rationale
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Electric Generation	Expand zero- and low-carbon energy production and distribution	Maintain, develop, and expand utility-scale renewable energy generation (includes solar, wind, hydropower, geothermal, green hydrogen)	Stakeholder priority
Residential and Commercial Buildings	Increase residential and commercial building energy efficiency	Building retrofitting and weatherization for energy efficiency improvements Heating fuel electrification / heat pumps LED lighting Insulation improvements Other	Stakeholder priority
Transportation	Accelerate adoption of electric vehicles and technology	Electrify light-duty vehicles in state/city fleets Electrify light-duty vehicles	Stakeholder priority
Transportation	Reduce VMT	Enhance high occupant vehicle travel options Expand public transit Enhancing pedestrian and bike pathways	Stakeholder priority
Waste & Materials Management	Increase landfill diversion	Increase diversion rate of organic waste from landfill including food recovery	Stakeholder priority
Electric Generation	Expand zero- and low-carbon energy production and distribution	Expand additional solar options including community / distributed / on-site solar programs and battery storage	Stakeholder priority
Agriculture, Natural & Working Lands	Increase carbon sequestration capacity	Expand green spaces/urban tree canopy	Stakeholder priority
Agriculture, Natural & Working Lands	Increase carbon sequestration capacity	Expand implementation of agriculture best practices (crop and livestock management)	Sector coverage
Industry	Expand use of electric and green hydrogen industrial processes and technologies	Electrify industrial processes (especially low- and medium-heat processes)	Emissions impact
Waste & Materials Management	Increase waste-to-energy generation	Install and expand landfill gas collection systems renewable natural gas (RNG) generation)	Emission impact

DISSENTING VIEWPOINTS



While the priority measures received overwhelming support from stakeholders, various stakeholders raised concerns about these initiatives as well (fewer than 30 concerns per initiative). Other actions, such as carbon capture and storage, were deprioritized due to significant negative feedback.

Measures	Dissenting Viewpoints
Maintain, develop, and expand utility-scale renewable energy generation	<p>Concerns:</p> <ul style="list-style-type: none"> • Use of land for energy generation rather than agricultural purposes • Placement of renewable farms and impact on nearby residents • Concerns about renewable energy reliability <p>Mitigating factors:</p> <ul style="list-style-type: none"> • Careful selection of locations and voluntary nature of CPRG participation • Emissions reduction potential
Accelerate adoption of electric vehicles and technology	<p>Concerns:</p> <ul style="list-style-type: none"> • Environmental impact of electric vehicle and battery manufacturing • Ongoing reliance on private vehicles rather than public transit • Insufficient availability of charging stations and carbon impact of grid electricity <p>Mitigating factors:</p> <ul style="list-style-type: none"> • Inclusion of public transit initiatives and electric vehicle charging in the PCAP • Voluntary nature of CPRG participation • Emissions reduction potential

GLOSSARY

Measure: Refers to programs, policies, measures, and projects that will achieve or facilitate the reduction of greenhouse gas air pollution.

Evaluation: Refers to the identification of potential GHG actions for a given sector or source and the evaluation of the GHG reduction potential, costs, and other benefits associated with implementation of the action.

Quantification: Refers to modeling or the application of other tools or resources to quantify the GHG reductions that would occur annually over the project’s lifetime if implemented.



For more information and updated information on IDEM's implementation of the CPRG program, consult IDEM's website at www.in.gov/idem/airquality/climate-pollution-reduction-grant-cprg-program/.



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For more information on the Climate Pollution Reduction Grant Program, consult the dedicated page on the website of the EPA available at www.epa.gov/inflation-reduction-act/climate-pollution-reduction-grants.