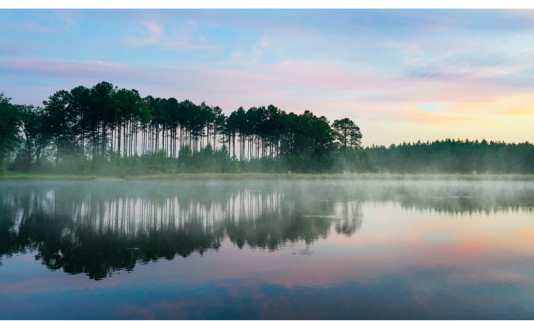




Funding Opportunity Number
EPA-R-OAR-CPRGI-23-07

Climate Pollution Reduction Grants Program

Emissions Reduction Implementation Grant



MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY



April 1, 2024

NOTE: USE OF THIS EXAMPLE COVER PAGE IS OPTIONAL. IF THIS INFORMATION IS PROVIDED IN A DIFFERENT FORMAT, EPA WILL NOT REVIEW AN APPLICATION UNFAVORABLY.

**CPRG IMPLEMENTATION GRANTS COMPETITION
COVER PAGE FOR APPLICATION**

APPLICANT INFORMATION

Organization	Mississippi State University
Primary Contact Name	Austin Check
Phone Number	662-325-4911
Email Address	austin.check@msstate.edu

TYPE OF APPLICATION ☐ Individual Applicant ☒ Lead Applicant for a Coalition

If lead applicant for a coalition, provide a list of the coalition members below.

Mississippi State University Mississippi Department of Environmental Quality

FUNDING REQUESTED: *Provide total EPA CPRG Implementation Grant funding requested.*

\$ 83,817,426

APPLICATION TITLE: *Provide the title of your proposed project.*

Clean Air Mississippi Project: Emissions Reduction Implementation

BRIEF DESCRIPTION OF GHG MEASURES: *Describe each GHG reduction measure contained in the application (1-2 sentences each).*

Please see page i in the document (page 4 in the PDF) for a full description of GHG Measures.

SECTORS: *Identify the sector(s) associated with the GHG reduction measures included in the application.*

- | | |
|--|---|
| <input checked="" type="checkbox"/> Industry | <input checked="" type="checkbox"/> Commercial and Residential Buildings |
| <input checked="" type="checkbox"/> Electricity Generation | <input checked="" type="checkbox"/> Agriculture/Natural and Working Lands |
| <input checked="" type="checkbox"/> Transportation | <input type="checkbox"/> Waste and Materials Management |
| <input type="checkbox"/> Other (please describe) | <div></div> |

EXPECTED TOTAL CUMULATIVE GHG EMISSION REDUCTIONS

For all proposed measures combined, provide the estimated cumulative GHG reductions:

Estimated cumulative GHG reductions for 2025-2030 (in metric tons)

106,000

Estimated cumulative GHG reductions from 2025-2050 (in metric tons)

1,128,000

LOCATIONS: *List the primary location(s) where the proposed measures will be implemented*

City

Biloxi, Brooksville, Jackson, Meridian, Raymond, Starkville, Stoneville, & Verona.

State; Territory; Federally recognized Tribe

Mississippi

APPLICABLE PRIORITY CLIMATE ACTION PLAN(S) (PCAP) ON WHICH MEASURES ARE BASED

PCAP Lead Organization(s):

Mississippi Department of Environmental Quality

PCAP Title(s):

MDEQ Priority Climate Action Plan

PCAP Website link(s) (if applicable):

cleanairmsproject.com/Content/MDEQ%20Priority%20Climate%20Action%20Plan.pdf

List of GHG reduction measures and PCAP page reference for each measure:

Residential and commercial distributed solar generation and storage - Page 86
Vehicle transition - Page 104
Alternative fueling infrastructure - Page 111
Building energy efficiency improvements - Page 115
Forest carbon management - Page 123
BMPs for agricultural land - Page 128

BRIEF DESCRIPTION OF GHG MEASURES: *Describe each GHG reduction measure contained in the application (1-2 sentences each).*

Residential and commercial distributed solar generation and storage: Incentivizing and promoting distributed energy resources, including rooftop solar systems and small-scale electricity storage systems.

Vehicle transition: Mississippi aims to achieve significant GHG reductions, targeting over 25% of annual emissions from the transportation sector. The reduction measure focuses on accelerating the state's transition to alternative fuels, including battery electric, plug-in hybrid, or H2 vehicles.

Alternative fueling infrastructure: By deploying and constructing additional alternative fueling infrastructure (e.g., electric charging stations), this measure aims to serve as another strategy to promote and stimulate the adoption of EV and other alternative vehicles.

Building energy efficiency improvements: Among the end-use sectors, residential and commercial buildings contribute to 34% of total energy used in Mississippi.

Forest carbon management: Forests are continuously sequestering CO₂ through photosynthesis, storing large amounts of carbon in the soil, and emitting a portion of it back to the atmosphere through bacterial decomposition. This process prevents the stored carbon from being emitted to atmosphere as CO₂.

BMPs for agricultural land: The emissions from the agricultural sector represent around 9% of the total GHG emitted by the state.

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