Oklahoma's CPRG Implementation Grant Application

OKLAHOMA'S PATH TO **POLLUTION REDUCTION** AND **ENERGY GROWTH**

Developed by Oklahoma Department of Environmental Quality (DEQ)
for the Environmental Protection Agency's
Climate Pollution Reduction Grant # 02F36201

Oklahoma CPRG Implementation Grant Cover Page

APPLICANT INFORMATION

Organization: Oklahoma Department of Environmental Quality
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TYPE OF APPLICATION ☒ Individual Applicant ☐ Lead Applicant for a Coalition

FUNDING REQUESTED: $191,503,405.00

APPLICATION TITLE: Oklahoma CPRG Implementation Grant Application

BRIEF DESCRIPTION OF GHG MEASURES:

The Oklahoma Department of Environmental Quality (DEQ) is requesting funding for a wide variety of projects that were included as priority measures in Oklahoma's Priority Action Plan (PAP) including:

Measure	Description
Hydrogen Fueling Station, EV Chargers, & Fleet Transition	Hydrogen fueling and electric vehicle charging infrastructure for medium and heavy-duty zero emissions trucks (MHD ZETs) along the I-35 corridor in Oklahoma. Incentivizing replacement of gas/diesel powered fleet vehicles with new electric and hydrogen-fueled vehicles.
Hydrogen Production	Support the generation of low-carbon hydrogen to create a hydrogen economy that facilitates the usage and consumption of clean fuels.
Asphalt Technology Advances and Use of Reclaimed Materials	Incentivizing emission reductions in pavement construction for entities that utilize: Warm Mix Asphalt (WMA), or Reclaimed Asphalt Pavement (RAP)
Municipal Solid Waste Landfill Gas Collection and Control (GCCS)	An incentive-based program for new GCCS at landfills as well as upgrades and expansion to existing GCCS, including the beneficial reuse of the collected gas.
Anaerobic Digesters at Municipal Wastewater Facility	Installation of new or upgrades to anaerobic digesters on Municipal wastewater facilities
Green Buildings	Energy efficient upgrades at public buildings including LED lighting, HVAC replacements and upgrades, energy efficient window replacement, control ventilation system installation, chillers, boilers, air handlers, solar panels, and battery storage.
Solar Farm Development	Expand the electric power renewable energy portfolio with solar panels and solar farms. This would include associated transmission upgrades such as transformer and line costs.
Transmission Upgrades	Upgrade transmission operations by increasing the capacity of the distribution system from 4kV to 12kV.

ASSOCIATED SECTORS:

☒ Industry
☒ Electricity Generation
☒ Transportation
☐ Other (please describe)
☒ Commercial and Residential Buildings
☐ Agriculture/Natural and Working Lands
☒ Waste and Materials Management

EXPECTED TOTAL CUMULATIVE GHG EMISSION REDUCTIONS

Estimated cumulative GHG reductions for 2025-2030: 4,913,427.11 metric tons CO_2e
Estimated cumulative GHG reductions from 2025-2050: 19,320,830.59 metric tons CO_2e

PRIMARY LOCATIONS OF IMPLEMENTED MEASURES: State of Oklahoma

APPLICABLE PRIORITY ACTION PLAN(S) (PAP)

PAP Lead Organization(s): Oklahoma Department of Environmental Quality
PAP Title(s): Oklahoma's Priority Action Plan
PAP Website link(s) (if applicable): https://www.deq.ok.gov/air-quality-division/CPRGOK/
https://www.deq.ok.gov/wp-content/uploads/air-division/CPRGOK_Priority_Action_Plan.pdf

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

Measure	PAP Page Numbers
Hydrogen Fueling Station, EV Charger, & Fleet Transition	13-14; D-3
Hydrogen Production	20-21; D-12
Asphalt Technology Advances and Use of Reclaimed Materials	13-14; D-3 thru D-4
Municipal Solid Waste Landfill Gas Collection and Control	31; D-30 thru D-32
Municipal Wastewater Facility Anaerobic Digesters	31; D-32 thru D-33
Green Public Buildings Energy Efficiency	26-27; D-8, D-11 thru D-12, D-19 thru D-29
Solar Farm Development	18-; D-5 thru D-6
Transmission Upgrades	18; D-6 thru D-7