

COVER PAGE FOR APPLICATION
NEBRASKA CPRG IMPLEMENTATION GRANTS COMPETITION

APPLICANT INFORMATION

Organization: Nebraska Department of Environment & Energy
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TYPE OF APPLICATION Individual Applicant Lead Applicant for a Coalition

FUNDING REQUESTED: \$341,399,719

APPLICATION TITLE: Nebraska Depart. of Environment and Energy CPRG Implementation Grant Application

BRIEF DESCRIPTION OF GHG MEASURES:

Measure Title	Brief Description
Promote Energy Efficiency and Electrification Upgrades for Non-Residential Facilities	This measure would provide incentives for energy efficiency, electrification, and weatherization upgrades for industrial, commercial, agricultural, public, and nonprofit buildings and facilities through a subaward to Nebraska’s public electric utilities to expand existing financial incentive programs.
Residential Pre-Weatherization Program	This measure would provide financial incentives through a Pre-Weatherization Program to address critical home repairs for low-income residents to remove the deferred status and allow eligibility for the Weatherization Assistance Program.
Incentives for Irrigation Well Conversion from Diesel to Electric	This measure would provide incentives to farmers to replace diesel engines powering irrigation well pumps with electric motors/pumps connected to the electric grid, with a goal of funding 50 engine replacements per year from 2025 - 2029.
Incentives for Micro-Solar Arrays for Critical Infrastructure in Low-Income Rural Communities	This measure proposes to provide financial incentives (rebates) to between four and ten rural low-income and disadvantaged communities to install 50 – 500 kW solar arrays at water and wastewater treatment facilities to reduce grid electricity to power these facilities.
Funding for Solar Projects on Unused/Contaminated Land, Ag & Industrial Facilities and Parking Lot/Feedlot Solar Canopies	This measure would provide incentives for solar projects in non-greenfield areas, including arrays on commercial, and residential rooftops, at agricultural center-pivot corners, and on canopies above parking lots and cattle feedlot pens. Funds would be dispersed through a subaward to Nebraska’s public electric utilities and other eligible entities to expand current and pilot solar project programs.
Measures to Reduce Emissions in Agricultural Production	This measure utilizes three strategies in concert to reduce agricultural emissions: 1) Develop a Carbon Intensity (CI) Score Registry and provide registration incentives for producers to register their land, 2) Incentivize adoption of Regenerative Agricultural (RA) Practices with a focus on soil health through a stakeholder visioning group, producer-to-producer learning groups, and local educational and demonstration sites, and 3)

	Incentivize use of Precision Agriculture (PA) Equipment to create strong sustainable yields while driving emissions towards net-zero. The CI Registry will lead producers towards RA and PA technologies and enable producers to quickly shift towards a new paradigm for crop production.
Establish Hub-and-Spoke Anaerobic Digester/Biogas Hubs for Agriculture Waste	This measure would provide incentives to develop regional anaerobic digester/biogas hubs near existing natural gas pipelines. Each regional hub would clean and inject RNG into the adjacent natural gas pipeline. This hub-and-spoke model leverages a central cleaning and injection site to the benefit of multiple producers.
Incentives for Production and Use of Biochar to Reduce Organic Waste and Sequester Carbon in Soil	This measure would provide incentives to aid five entities for the purchase of biochar processing equipment to reduce organic waste and sequester carbon in soils.

SECTORS:

- Industry
- Commercial and Residential Buildings
- Electricity Generation
- Agriculture/Natural and Working Lands
- Transportation
- Waste and Materials Management

EXPECTED TOTAL CUMULATIVE GHG EMISSION REDUCTIONS

Estimated cumulative GHG reductions for 2025-2030 (in metric tons): 24,584,970 tons CO₂e

Estimated cumulative GHG reductions from 2025-2050 (in metric tons): 134,418,537 tons CO₂e

LOCATIONS: State of Nebraska

APPLICABLE PRIORITY CLIMATE ACTION PLAN (PCAP) REFERENCES

PCAP Lead Organization: Nebraska Department of Environment and Energy

PCAP Title: Nebraska Priority Climate Action Plan

PCAP Website Link: [Nebraska DEE](https://www.nebraska.gov/dee)

LIST OF GHG REDUCTION MEASURES AND PCAP PAGE REFERENCE FOR EACH MEASURE:

Measure Title	PCAP page reference
Measure 1: Promote Energy Efficiency and Electrification Upgrades for Non-Residential Facilities	Pg. 14
Measure 2: Residential Pre-Weatherization Program	Pg. 19
Measure 3: Incentives for Irrigation Well Conversion from Diesel to Electric	Pg. 22
Measure 4: Incentives for Micro-Solar Arrays for Critical Infrastructure in Low-Income Rural Communities	Pg. 24
Measure 5: Funding for Solar Projects on Unused/Contaminated Land, Ag & Industrial Facilities and Parking Lot/Feedlot Solar Canopies	Pg. 26
Measure 6: Measures to Reduce Emissions in Agricultural Production	Pg. 29
Measure 7: Establish Hub-and-Spoke Anaerobic Digester/Biogas Hubs for Agriculture Waste	Pg. 39
Measure 8: Incentives for Production and Use of Biochar to Reduce Organic Waste and Sequester Carbon in Soil	Pg. 46