


Climate Pollution Reduction Grant:

Developing Plans to
Reduce Greenhouse Gas
Emissions in Nebraska

Industry / Waste Sectors
Stakeholder Session 2



Second Round Stakeholder Session Goals

- Main Goal: Stakeholder input on identifying priority measures
 - Program timeline
 - Review EPA scoring criteria for implementation grants
 - Review of Session 1 measures
 - Breakout Sessions: stakeholder priority ranking polls
 - New ideas
 - Present NDEE's preliminary priority assignments
 - Discussion of priority category assignments; suggested changes
 - Whole group discussion of priority measure categories
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Climate Pollution Reduction Grant Timeline




EPA Scoring Criteria for GHG Reduction Measures

Criterion	Points
Benefits to low-income disadvantaged communities	25
Magnitude of GHG reductions 2025-2030	20
Cost-effectiveness of measure	15
Documentation of GHG reduction assumptions	15
Transformative Impact	15
Magnitude of GHG reductions 2025-2050	10
Reductions in other air pollutants 2025-2030	10
Demonstration of funding need (vs other grants)	10
TOTAL	120

Waste Sector Measures Proposed in Session 1

- Tiered refuse pickup charges based on size of trash container.
 - Funding for energy efficiency practices at wastewater treatment plants.
 - Incentives to redistribute unused food, reduce food waste, and increase recycling of organics.
 - Replace diesel refuse trucks with alternative fuel or electric trucks.
 - Funding for anaerobic digester and biogas hubs.
 - Focus on reducing paper & cardboard waste.
 - Replace school buses with electric buses.
 - Incentives for collecting and composting organics in cities.
 - Funding for municipal wastewater plants to create methane from high-conc. food processing wastewater.
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Industry Sector Measures Proposed in Session 1

- Further exploration of Nebraska hydrogen hub.
 - Funding for energy efficiency upgrades at food processing and livestock facilities.
 - Promote renewable natural gas.
 - Carbon capture and geologic sequestration, CO2 from ethanol plants.
 - Incentives for industrial heat pumps.
 - Program to remove and transport invasive red cedar from grazing lands and produce biochar.
 - Incentives e.g. tax credits for adopting more energy-efficient equipment.
 - Streamline regulations on pipeline right of way for CO2 pipelines.
 - Funding to utilities to expand energy efficiency incentive programs for industrial customers.
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Industry and Waste Breakouts



Waste Breakout



NDEE Preliminary Priority Categories for Waste Measures

PRIORITY CATEGORY	MEASURES
HIGH PRIORITY	<p>Incentives to redistribute unused food, reduce food waste, increase recycling of organics.</p> <p>Funding for anaerobic digester hubs.</p> <p>Funding for energy efficiency and renewable energy practices at wastewater treatment plants.</p> <p>Replace diesel refuse trucks with renewable fuel or electric.</p>
HAS POTENTIAL – LONGER TERM	<p>Incentives for collecting and composting organics in cities.</p> <p>Funding for hub-and-spoke organic collection for rural communities.</p> <p>Funding for municipal wastewater plants to create methane from high-conc. food processing wastewater.</p>
LOWER IMPACT/ HIGHER DIFFICULTY	<p>Tiered refuse pickup charges based on size of trash container.</p>

Waste Measures	Impact	LIDAC Impact	Ease of Implementation	Ease of Measurement	Priority
Incentives to redistribute unused food, reduce food waste, and increase recycling of organics.	High	High	Medium	Medium	High
Incentives for collecting and composting organics in cities.	Medium	Medium	Difficult	Difficult	Has Potential – Long Term
Funding for hub-and-spoke organic collection for rural communities.	Medium	High	Medium	Medium	Has Potential – Long Term
Funding for anaerobic digester and biogas hubs.	High	Medium	Medium	Medium	High
Focus on reducing paper & cardboard waste.	Medium	Medium	Difficult	Medium	Has Potential – Long Term
Replace diesel refuse trucks with renewable fuel or electric.	Medium	Medium	Easy	Easy	High
Tiered refuse pickup charges based on size of trash container.	Low	Low	Difficult	Difficult	Low Impact / Difficult
Funding for energy efficiency and renewable energy practices at wastewater treatment plants.	High	Medium	Easy	Medium	High
Funding for municipal wastewater plants to create methane from high-conc. food processing wastewater.	Medium	Medium	Easy	Medium	Has Potential – Long Term

Waste Sector

IMPACT

HIGH

MEDIUM

LOW

		<p>Reduce food waste Funding for anaerobic digester/biogas hubs. Energy efficiency at wastewater treatment plants</p>	
<p>Reduce paper/cardboard waste</p>	<p>Collect and compost organics Hub & spoke organic collection Methane from food processing wastewater</p>	<p>Refuse Truck Replacements</p>	
<p>Pickup charges based on trash container size</p>			

DIFFICULT

MEDIUM

EASY

EASE OF IMPLEMENTATION

NDEE Preliminary Priority Categories for Waste Measures

PRIORITY CATEGORY	MEASURES
HIGH PRIORITY	<p>Incentives to redistribute unused food, reduce food waste, increase recycling of organics.</p> <p>Funding for anaerobic digester hubs.</p> <p>Funding for energy efficiency and renewable energy practices at wastewater treatment plants.</p> <p>Replace diesel refuse trucks with renewable fuel or electric.</p>
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Industry Breakout



NDEE Preliminary Priority Categories for Industry Measures

PRIORITY CATEGORY	MEASURES
HIGH PRIORITY	Funding to utilities to expand energy efficiency incentive programs for industrial customers. Funding for energy efficiency at food processing and livestock facilities. Incentives for industrial heat pumps.
HAS POTENTIAL – LONGER TERM	Program to remove and transport invasive red cedar from grazing lands and produce biochar. Promote renewable natural gas.
LOWER IMPACT/ HIGHER DIFFICULTY	Incentives e.g. tax credits for adopting more energy-efficient equipment. Carbon capture and geologic sequestration, CO2 from ethanol plants. Streamline regulations on pipeline right of way for CO2 pipelines. Further exploration of Nebraska hydrogen hub.

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Funding for energy efficiency at food processing and livestock facilities.	High	Medium	Medium	Medium	High
Incentives for industrial heat pumps.	High	Medium	Easy	Easy	High
Carbon capture and geologic sequestration, CO2 from ethanol plants.	High	Low	Difficult	Medium	Low Impact / Difficult
Streamline regulations on pipeline right of way for CO2 pipelines.	High	Low	Difficult	Difficult	Low Impact / Difficult
Further exploration of Nebraska hydrogen hub.	Medium	Low	Difficult	Difficult	Low Impact / Difficult
Promote renewable natural gas.	Medium	Low	Medium	Medium	Has Potential – Long Term
Program to remove and transport invasive red cedar from grazing lands and produce biochar.	Medium	Medium	Medium	Medium	Has Potential – Long Term

Industry Sector

IMPACT

HIGH	<p>Carbon capture & sequestration Streamline CO2 pipeline regs</p>	<p>Funding for energy efficiency at food processing & livestock facilities.</p>	<p>Fund utility energy efficiency programs for industry Incentives for industrial heat pumps.</p>
MEDIUM	<p>Tax credits for energy-efficiency equipment Nebraska Hydrogen Hub</p>	<p>Promote renewable natural gas Red cedar removal & biochar</p>	
LOW			

DIFFICULT

MEDIUM

EASY

EASE OF IMPLEMENTATION

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Full Group



NDEE Preliminary Priority Categories for Waste Measures

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