

NJ Climate Pollution **Reduction Grant** Program Kick-Off Workshop



October 24th, 12:00PM, 2023

Meet the Team

Workshop Moderator

Chat Moderator

Director's Welcome





Helaine Barr NJDEP, Bureau Chief, Climate Change and Clean Energy

Lead Presenter

Presenter



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Webinar Ground Rules

- Participants are muted. During the Q&A session we will discuss how to express your questions/comments/concerns
- This meeting is being recorded. By attending this meeting, you consent to being recorded
- A recording of this webinar will be available on our website
- Please be courteous of other participants and allow time for meaningful discussion
- Our speakers will try to address as many questions as possible at the end of the presentation





Agenda

- Director's Welcome
- Overview of EPA's Climate Pollution Reduction Grant Program
- State of New Jersey PCAP Workplan
- Engagement Opportunities
- Question + Answer Session

Why are we here today?



Explain EPA's Climate Pollution Reduction Grant Program



Outline New Jersey's Workplan Approach



Launch Priority Climate Action Plan Stakeholder Process



Encourage Development of Diverse Grant Applications

What is CPRG?

The Climate Pollution Reduction Grant (CPRG) program is a nationwide, twophase EPA grant, funded via the Inflation Reduction Act

Phase One: \$250 Million

Phase Two: \$4.6 Billion

Noncompetitive planning grants to states, local governments, tribes, and territories to develop and implement climate action plans for reducing greenhouse gas emissions and other harmful air pollution.

Competitive implementation grants to carry out the greenhouse gas reduction measures proposed in the climate action plans.



For more information visit: <u>https://www.epa.gov/inflation-reduction-act/climate-pollution-reduction-grants</u>

CPRG Phase I · Grant Recipients

4 Planning Grants covering New Jersey



State of New Jersey NJDEP Lead

Statewide

New York-Newark-Jersey City, NY-NJ-PA Metro Area

NYCEDC + NJTPA Lead

Covered Counties: Essex, Hunterdon, Morris, Sussex, Union, Middlesex, Monmouth, Ocean Somerset, Bergen, Hudson, Passaic

Allentown-Bethlehem-Easton, PA-NJ Metro Area LVPC Lead Covered Counties: Warren

Philadelphia-Camden-Wilmington, PA-NJ-DE-MD Metro Area

DVRPC Lead Covered Counties: Burlington, Camden, Gloucester, Mercer, Salem



CPRG Workplan Areas within New Jersey

CPRG Phase I · Planning Grants

One planning grant, three deliverables over 4 years

Priority Climate Action Plan (PCAP) Due March 2024

- Near-term, implementation ready, priority greenhouse gas reduction
- Prerequisite for implementation grant

Comprehensive Climate Action Plan (CCAP) Due Mid-2025

 All sectors/significant greenhouse gas sources and sinks

 Near- and long-term greenhouse emission reduction goals and strategies 9

Status Update Report Due 2027

- Update on implementation, analysis and plans
- Progress and next steps for key metrics

CPRG Phase I · Plan Requirements

Components	РСАР	ССАР
GHG Inventory	\checkmark	\checkmark
GHG Emissions Projections	×	\checkmark
GHG Reduction Targets	×	\checkmark
Quantified GHG Reduction Measures	\checkmark	\checkmark
Benefits Analysis	\checkmark	\checkmark
Low-income and Disadvantaged Communities Benefits Analysis	\checkmark	\checkmark
Review of Authority to Implement	\checkmark	\checkmark
Intersection with other Funding Availability	\checkmark	\checkmark
Workforce Planning Analysis	\checkmark	\checkmark
Next Steps, Future Budget and Staffing Needs	X	X





Total program funds: \$4.6 Billion nationally

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Award amounts: \$2 million to \$500 million

CPRG Phase II Implementation Grants



Anticipated Number of Awards: 30-115



Applications due: April 1, 2024

CPRG Phase II · Implementation Grants Eligibility

Open to entities who:

- 1. Received a CPRG planning grant, or
- 2. Eligible entities that did not receive a CPRG planning grant but are applying for funds to implement measures included in an applicable Priority Climate Action Plan

Eligible Applicants

- Metropolitan Statistical Areas (MSA)
- County
- Municipality
- Air pollution control agency
- 🖌 Tribe

CPRG Phase II · Implementation Grant Key Considerations

Eligible entities can submit <u>at most</u> two lead applications



Eligible entities can be a partner in numerous coalition applications



EPA will not award multiple grants to implement the same measures in the same location

Coalitions may not submit multiple applications for the same set of GHG reduction measures using different lead applicants

Applications will be evaluated holistically

CPRG Phase II · Implementation Grants Project Criteria

- Stimulate a decarbonized economy and demonstrate replicability across jurisdictions
- Emphasize near-term emissions reductions (2030 and beyond)
- Accelerate decarbonization across one or more major sector
- ✓ Be included in the PCAP
- ✓ Substantially reduce air pollutants
- ✓ New programs or expansion of an existing program
- Have a strong need for funding that is unmet by other funding sources (including state and federal funding)







CPRG Key Deadlines

September 2023	Implementation Grant NOFO Issued
Feb 1, 2024	Notice of Intent to Apply for Implementation Grant Due
March 1, 2024	PCAP due
April 1, 2024	Implementation Grant applications due
July 2024	Awards for Implementation Grants
Summer 2025	CCAP due
2027	Status Report due



State of New Jersey CPRG Workplan

New Jersey's Approach to the CPRG Planning Deliverables

New Jersey will expand on, enhance, and implement existing climate plans:

- Energy Master Plan
- Global Warming Response Act 80x50 Report
- NJ RGGI Strategic Funding Plan





New Jersey's Priority Climate Action Plan (PCAP)



Timeline for PCAP Development



NJ GREENHOUSE GAS SOURCES & SINKS 2020

New Jersey's Priority Sectors for PCAP

- Transportation
- Buildings
- Electric Generation
- Organic Waste
- Hydrofluorocarbons (HFCs) / Highly Warming Gases
- C-Sequestration



Waste Snapshot

Sources of Waste Sector Emissions (2018)



50% reduction in current food waste disposal in landfills by 20301. Reduce and recover food waste2. Optimize energy recovery efforts in wastewater treatment	Goals	Priority Reduction Pathways
landfills by 20302. Optimize energy recovery efforts in wastewater treatment	50% reduction in current food waste disposal in landfills by 2030	1. Reduce and recover food waste
		2. Optimize energy recovery efforts in wastewater treatment

Driving Investment in Waste Reduction

Distributed Food Waste Recycling Infrastructure

 Investment in Higher Education Aerobic Digesters + Rocket Composters

Research, Education + Outreach

- New Jersey Food Asset Inventory and Mapping Project [Stockton University]
- Leave No Bite Behind Campaign [Rutgers University]





Potential Opportunities

Food donation/food rescue
supportive infrastructureDistributed Composting
InfrastructureLarge Scale Food-Waste
Recycling FacilitiesWaste to Energy Projects at
Wastewater Treatment
Facilities

Highly Warming Gases Snapshot

Sources of HFC Emissions (2018) $\rm MMT\,CO_2e$



Goals	Priority Reduction Pathways
Stop the growth of emissions from HFCs by 2030	1. Containment through leak repairs, strict materials handling, and recycling
	2. Product phase out, involving outright bans by law or regulation

Driving Investment in HFC Reduction

HFC Law (P.L. 2019, c.507)

 Phases out sale, lease, rent or installation of certain equipment or products containing HFCs or other GHGs by 2024

HFC Reporting Rule (N.J.A.C. 7:27E)

- Requires large HFC uses to annually report to the Department
- Reporting data from ~900 facilities





Potential Opportunities

Incentive programs for low global warming potential refrigeration and chiller systems

Refrigerant Management Program Workforce Development + Markets for new cooling products and technologies

Natural Working Lands Snapshot

Carbon Sequestration Projection $\ensuremath{\mathsf{MMT}}\xspace{\ensuremath{\mathsf{CO}}}\xspace_2 e$

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GWRA 80x50 Report, Figure 7.2

Goals	Priority Reduction Pathways
Maintain existing carbon stores and increase carbon sequestration through balanced land management strategies	1. Reforestation
	2. Avoided conversion of natural lands
	3. Salt marsh and seagrass restoration and enhancement
	4. Conservation management of agricultural lands
	5. Proactive forest management

Driving Investment in Natural Working Lands

Natural Climate Solutions Program

 Awarded \$24.3M for 14 projects that create, restore, and enhance New Jersey's natural carbon sinks, such as salt marshes, seagrass beds, forests, urban parks and woodlands, and street trees

Trees for Schools Program

• Awarded \$4.5M across 34 public schools, colleges and universities in the state to plant trees.





Potential Opportunities



Transportation Snapshot

Sources of On Road Emissions (2018)



GWRA 80x50 Report, Figure 1.4

Goals	Priority Reduction Pathways
	1. Electrify light duty vehicles
100% electric vehicle light duty sales by 2035	2. Decarbonize medium and heavy-duty vehicles
30% zero-emission medium- and heavy-duty vehicle sales by 2030	
100% of all new medium-and heavy-duły vehicle sales be zero emission vehicles by 2050	3. Reduce VMT

Driving Investment in Transportation

Vehicles

- Charge Up New Jersey incentivizes the purchase or lease of zero-emission vehicles
- **DEP, BPU & EDA fund** medium- and heavy-duty electric vehicles and charging stations.
- **eMobility grants** provide residents of underserved areas with access to zeroemission vehicles.

Infrastructure

• **BPU & DEP (It Pay\$ to Plug In)**provide funding to offset the cost of charging equipment.

Reducing VMT

- Financial support for **commuter vanpools** in areas where public transit is not available or feasible.
- The **Transit Village Program** promotes transit-oriented development in neighborhoods surrounding transit hubs, encouraging transit use.





Potential Opportunities

Light-duty electric vehicle charging infrastructure

Public medium-and heavyduty vehicle charging and fueling infrastructure Funding for electrifying medium-and heavy-duty vehicle and port equipment

Support for Mid-Atlantic Hydrogen Hub Grid-supportive strategies

Improve walking, biking, and transit infrastructure

Technical assistance for

fleet owners

Technical assistance for multi-unit dwelling charging infrastructure

Workforce programs for EVSE maintenance and installation



Buildings Snapshot

Sources of Residential Building Emissions (2018)



Sources of Commercial Building Emissions (2018)



GWRA 80x50 Report, Figure 2.3

Buildings Snapshot

Goals	Priority Reduction Pathways
90% of buildings must be converted to 100% clean energy	1. Electrify space and water heating (existing and new)
systems, with full scale conversion beginning in 2030	2. Maximize energy efficiency in existing buildings
Electrify 400,000 residential dwelling units and 20,000 commercial properties by 2030	
Make 10% of all low-to-moderate income (LMI) properties electrification-ready by 2030	
United States Climate Alliance commitment to install 20 million heat pumps across participating states by 2030	

Driving Investment in Buildings

- Appliance Standard Law
- Whole House Pilot Program
- Utility Building Decarbonization Start up programs as part of Energy Efficiency Triennium (round 2)
- Other Key NJ Building Incentive programs:
 - <u>Comfort Partners Program (BPU + Utilities)</u>
 - Weatherization Assistance Program
 - Energy Benchmarking Programs
 - <u>Utility Programs</u>
 - <u>Free Local Government Energy Audit Program</u>
 - New Construction Buildings Programs
 - <u>Smart Start Program</u>
 - Pay for Performance Program
 - <u>Commercial Property Assessed Clean Energy (C-PACE)</u> program (EDA)
 - Large Energy Users Program





Potential Opportunities

Proof of concept pilots and demonstration projects



Funding for residential and commercial electrification

Workforce development for building electrification

Technical Assistance programs for building owners

Electric Generation Snapshot

Sources of In-State Electric Generation Emissions (2018)



GWRA 80x50 Report, Figure 3.2

Goals	Priority Reduction Pathways
100% Clean Energy by 2050	1. Reduce demand through energy efficiency
100% Clean Electricity Sold in New Jersey by 2035 35% RPS by 2025 and 50% RPS	2. Transition from fossil fuel electric generation to renewable energy
by 2030	3. Procure out-of-state renewables

Driving Investment in Clean Electric Generation

Wind

• Offshore Wind, procured 3.7 GW (3,758 MW)

Solar

- Administratively Determined Incentive Program (ADI) ~336 MW of capacity
- Community Solar Program ~55 MW of capacity







Potential Opportunities

Distribution grid upgrades to enable greater adoption of distributed energy resources (such as solar + batteries)



Adoption of energy storage technologies in lieu of emergency generators Continued expansion of solar throughout the state ensuring all communities have equal access

Building the workforce to satisfy New Jersey's clean energy goals

Principles for Engagement

Inclusivity and Equity

Authentic Partnership

Transparency and Accountability

- Culturally Relevant Engagement
- Education and Empowerment
- Community-led Solutions
- Health and Well-being
- Long-term Collaboration
- Intersectionality and Interconnectedness



10 Continuous Learning and Adaptation

New Jersey Approach to Engagement

Build off previous engagement and cultivate strong partnerships





Question and Answer Session



Upcoming Stakeholder Events

Municipal Workshops

- October 26th Sustainable Jersey Urban Sustainability Hub Workshop
- November 2nd BPU Clean Energy Plan Grant Recipient Workshop

Upcoming Topical Workshops

- November 8th Natural and Working Lands
- November 9th Food Waste
- November 13th Highly Warming Gases

Additional Events will be scheduled for other sectors and interest groups

Staying in the Know on NJ CPRG

Visit Our Webpage + Join the Email List <u>https://dep.nj.gov/climatechange/mitigation/cprg/</u>



Thank you!

