

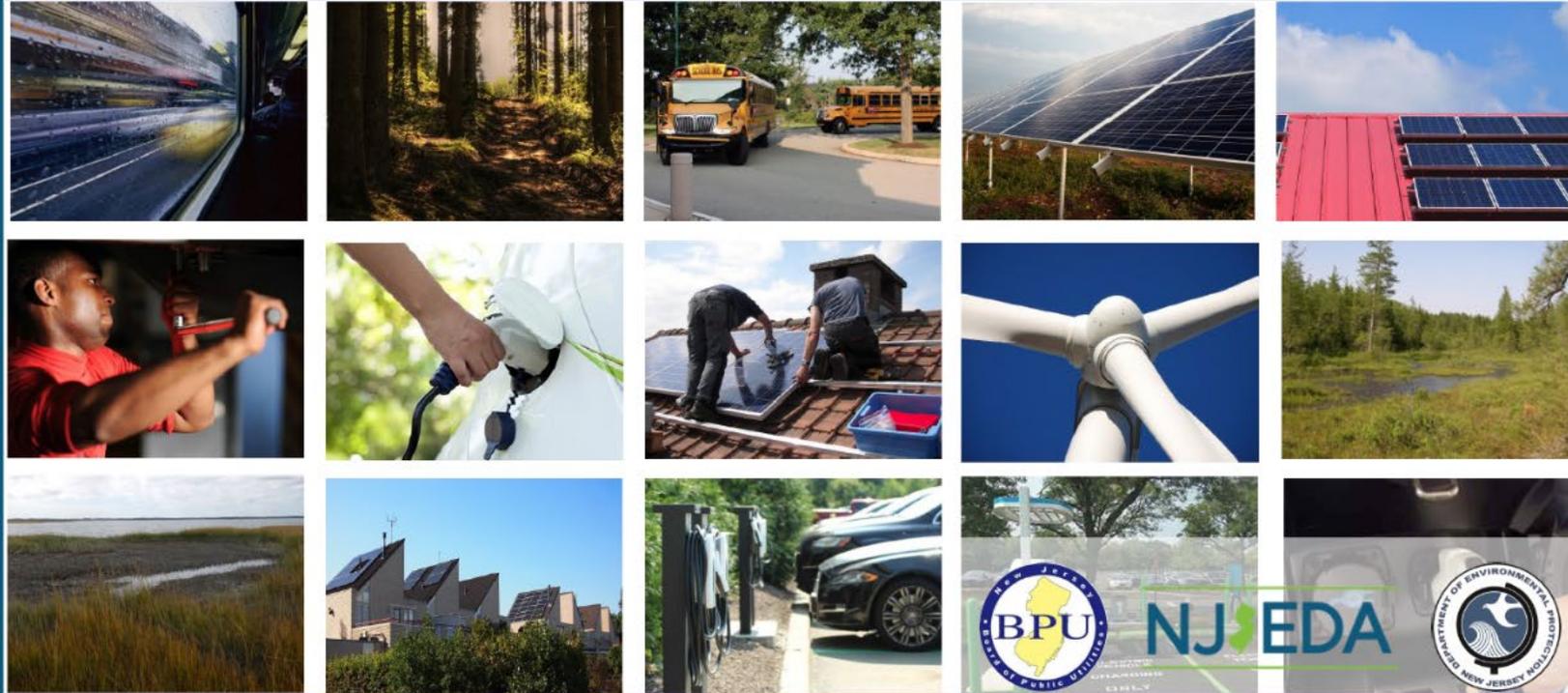
RGGI Webinar



AGENDA

- 10:00 A.M.** **Webinar Welcome**
Christine Schell, Office of the Asst. Commissioner, NJDEP
- 10:05 A.M.** **Introduction to the RGGI Strategic Funding Plan**
Christine Schell, Office of the Asst. Commissioner, NJDEP
- 10:35 A.M.** **Review of Public Input**
Christine Schell, Office of the Asst. Commissioner, NJDEP
- 11:00 A.M.** **Question & Answer**
- 11:45 A.M.** **Next Steps & Closing Remarks**
Christine Schell, Office of the Asst. Commissioner, NJDEP

RGGI Webinar



Skype Q&A

your name (optional)

ask a question

ask anonymously

top all my questions



To leave a question or comment:

Enter your name and the organization that you represent.

Comments will be addressed during the open Q&A portion of the webinar.

Introduction to the RGGI Strategic Funding Plan

Christine Schell | NJDEP



Introduction

Atlantic Cape Community College | NJDEP

November 7th

New Jersey Institute of Technology | NJBPU

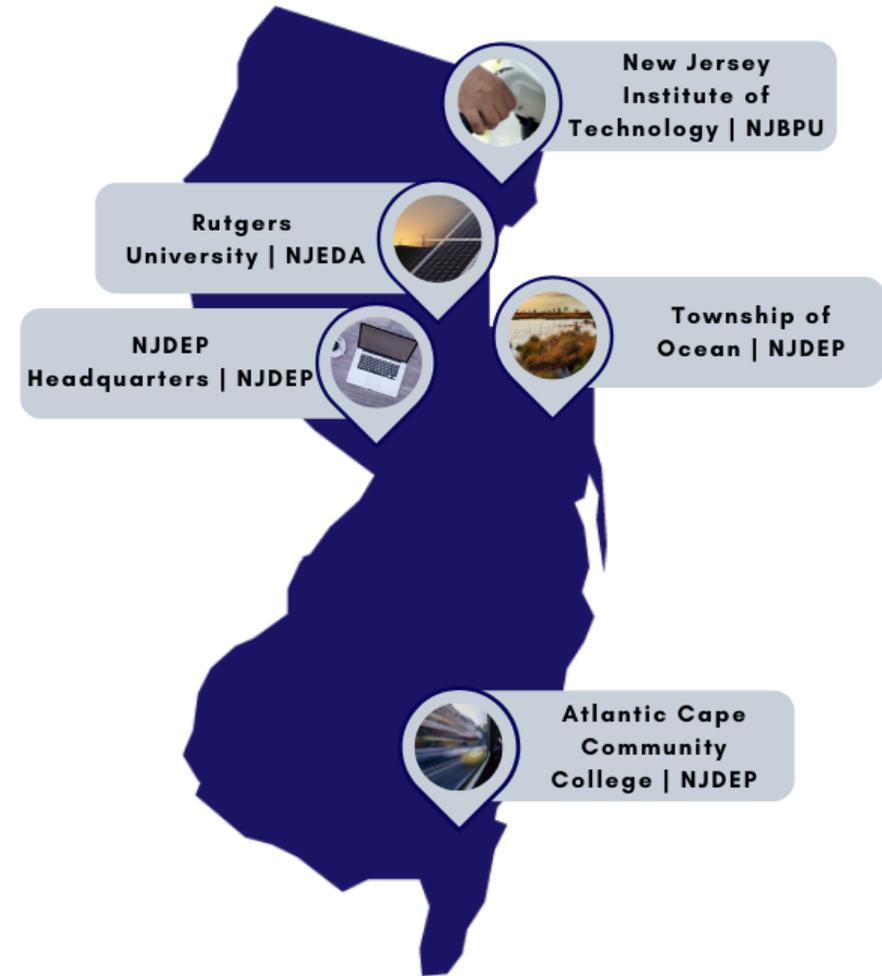
November 18th

Rutgers University | NJEDA

November 25th

Township of Ocean | NJDEP

December 6th



Outreach

71 social media posts

- 138,197 Impressions
- 812 Engagements

232 Workshop RSVPs

12 Email Submissions



.@NewJerseyDEP has released #NJ's RGGI Strategic Funding Plan Scoping Document! Visit nj.gov/rggi/ to download it, register for public workshops & provide feedback on how to help meet #NJ's climate, clean energy and equity goals. First workshop: 11/7 at @atlanticcape!



Today's the last day to register for Monday's #RGGI public workshop at @NJIT in #Newark.

We'll be discussing the RGGI Scoping Document - particularly the "Community #CleanEnergy Grid" initiative on pg. 16.

state.nj.us/rggi/



Check out #NewJersey's newly released RGGI Strategic Funding Plan Scoping Document! Visit nj.gov/rggi/ to download the document, register for the public workshops and to provide feedback on how to help meet #NJ's climate, clean energy and equity goals.

#RGGI



NJDEP Air Quality, Energy and Sustainability is at Rutgers University Student Centers & Activities. November 25 at 11:48 AM · New Brunswick

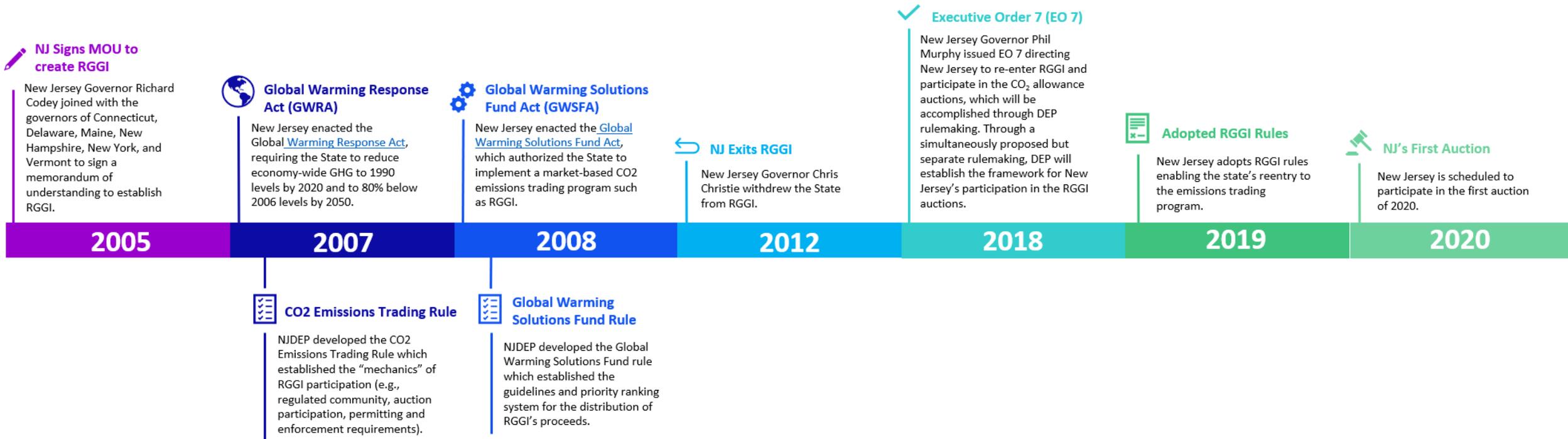
We had a very well attended RGGI funding workshop at Rutgers University today. The next workshop will be held in Ocean Township on December 6th. Click on the following link to register for it: www.nj.gov/rggi.



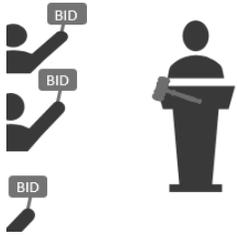
- Written Forms
- Dot Voting
- Facilitated Breakout Sessions
- Email Submissions



Back to the Future: New Jersey Rejoins RGGI



How Does RGGI Work?

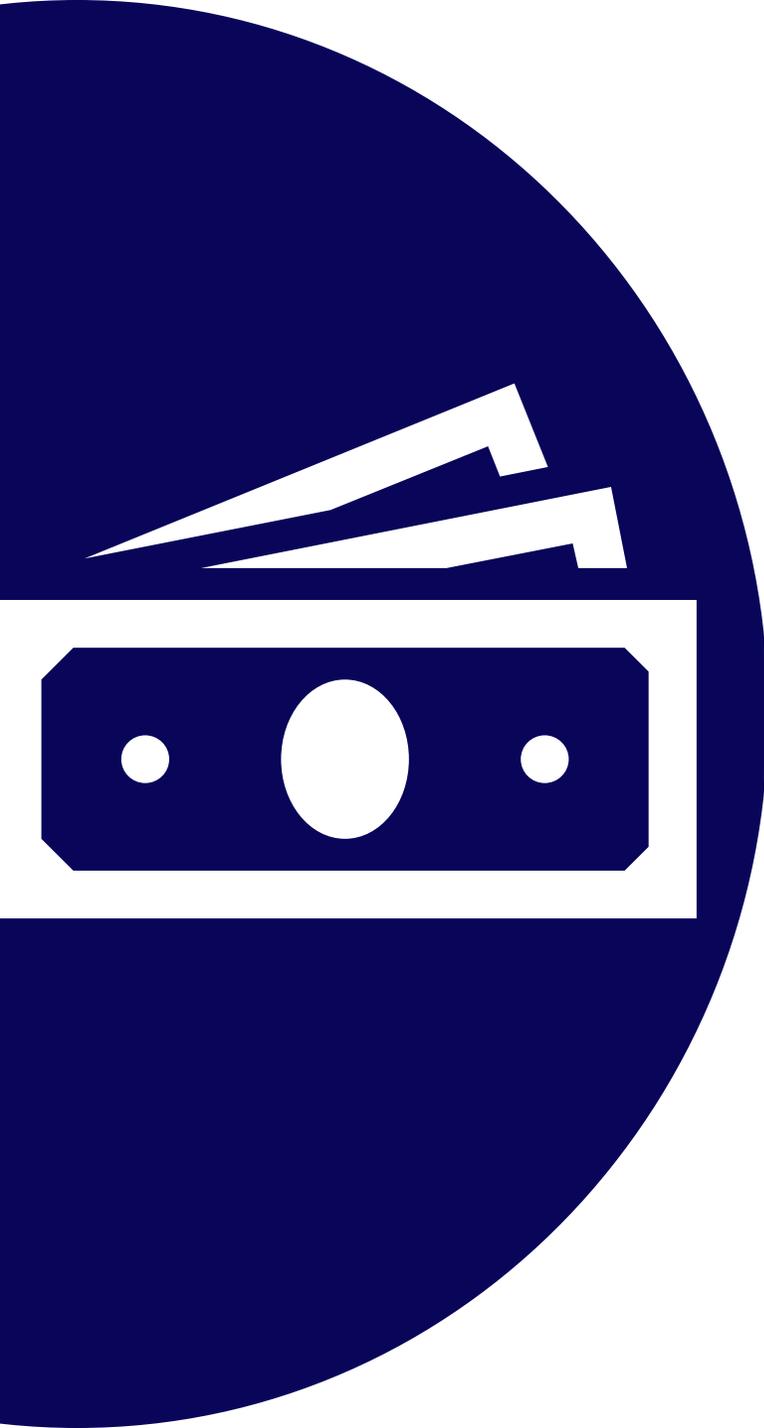
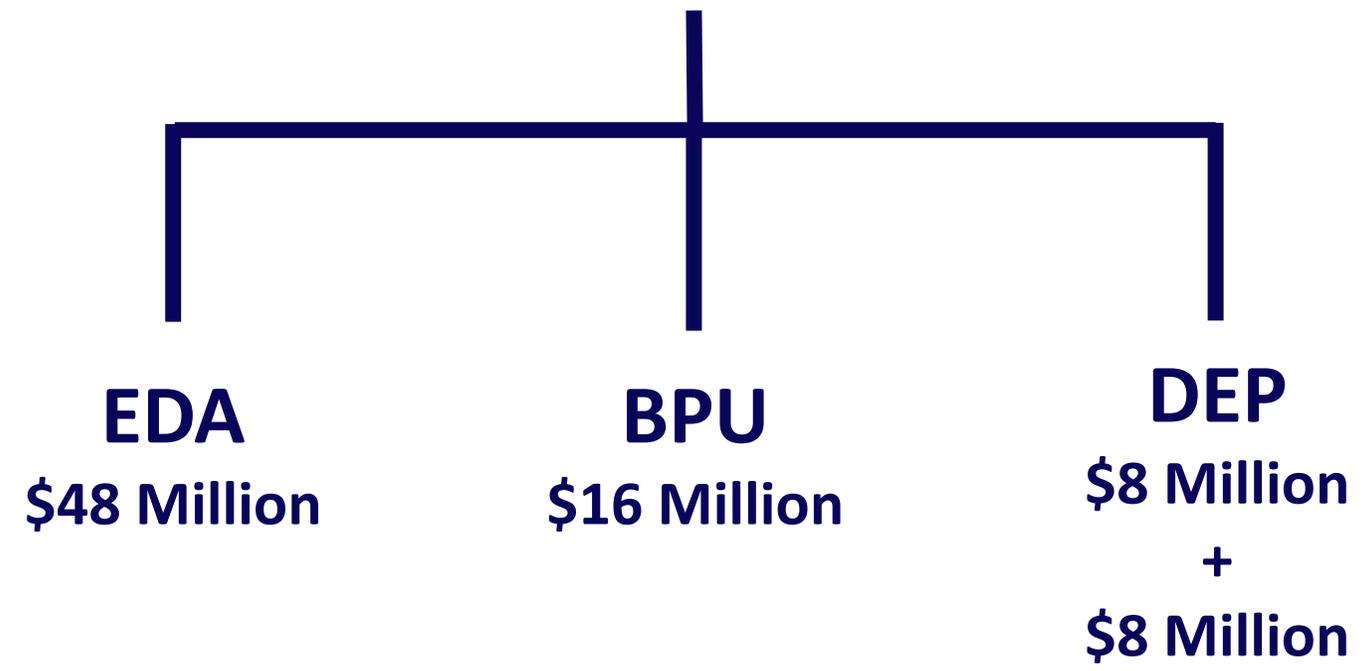


- Regional greenhouse gas emissions cap is established
- States offer allowances for sale in quarterly auctions
- Electric Generating Units purchase allowances to equal emissions for 3-year control period
- States receive revenue from quarterly auctions to invest

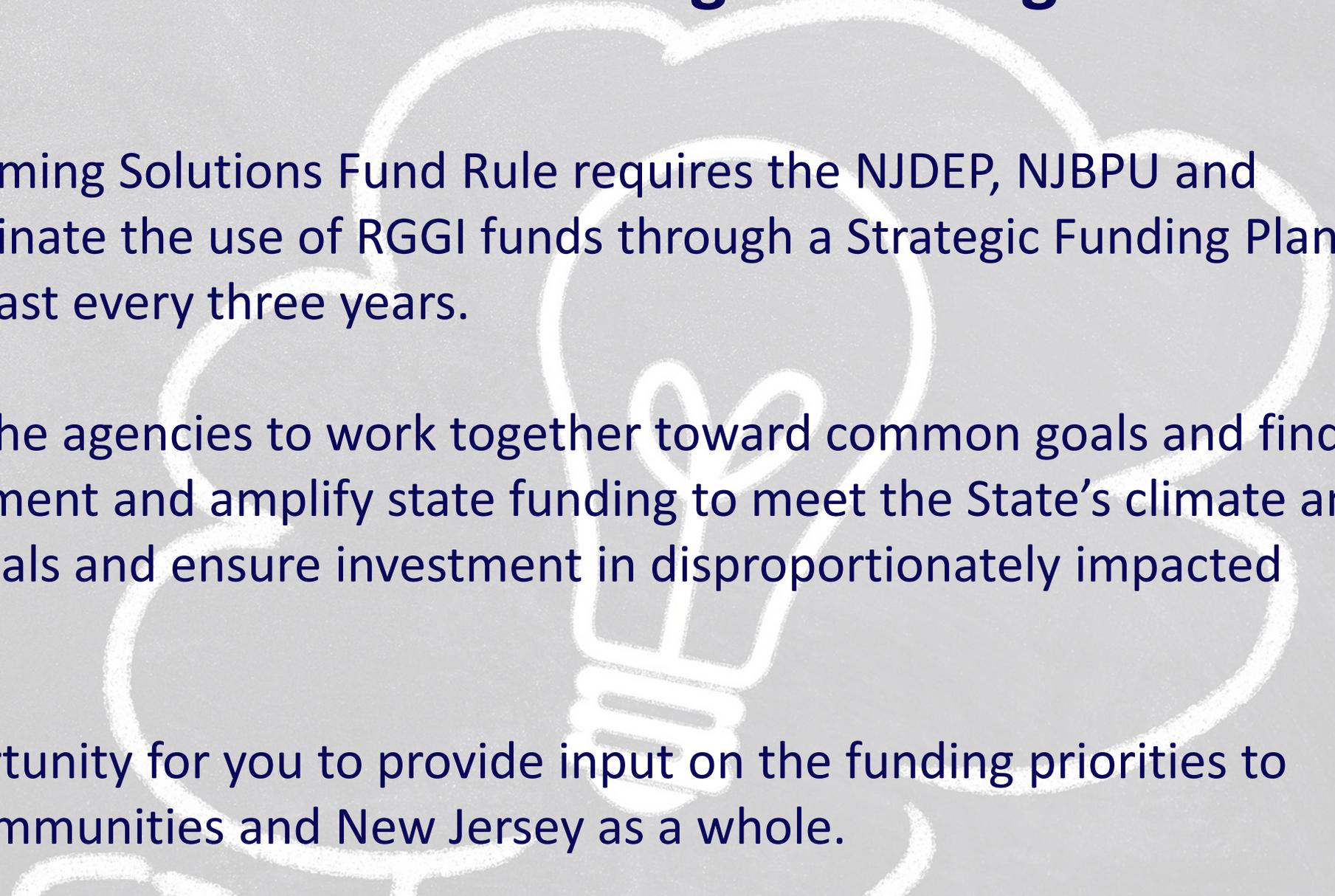
How Much Money?

The amount of money received will depend upon the price of carbon at the time of each auction.

**Best Guess:
\$80 million in 2020**



Why you are here: The Strategic Funding Plan

- The Global Warming Solutions Fund Rule requires the NJDEP, NJBPU and NJEDA to coordinate the use of RGGI funds through a Strategic Funding Plan developed at least every three years.
 - The goal is for the agencies to work together toward common goals and find ways to compliment and amplify state funding to meet the State's climate and clean energy goals and ensure investment in disproportionately impacted communities.
 - This is an opportunity for you to provide input on the funding priorities to benefit your communities and New Jersey as a whole.
- 

FUNDING PLAN FRAMEWORK



Public Meetings

Host four public meetings to educate about the funding requirements and to gather input on spending priorities.



Develop Initiatives

Identifies initiatives each agency will sponsor during the corresponding funding period.



Rank Initiatives

Ranks initiatives against six objectives by the state agencies. Each objective must be ranked critical to at least one initiative.



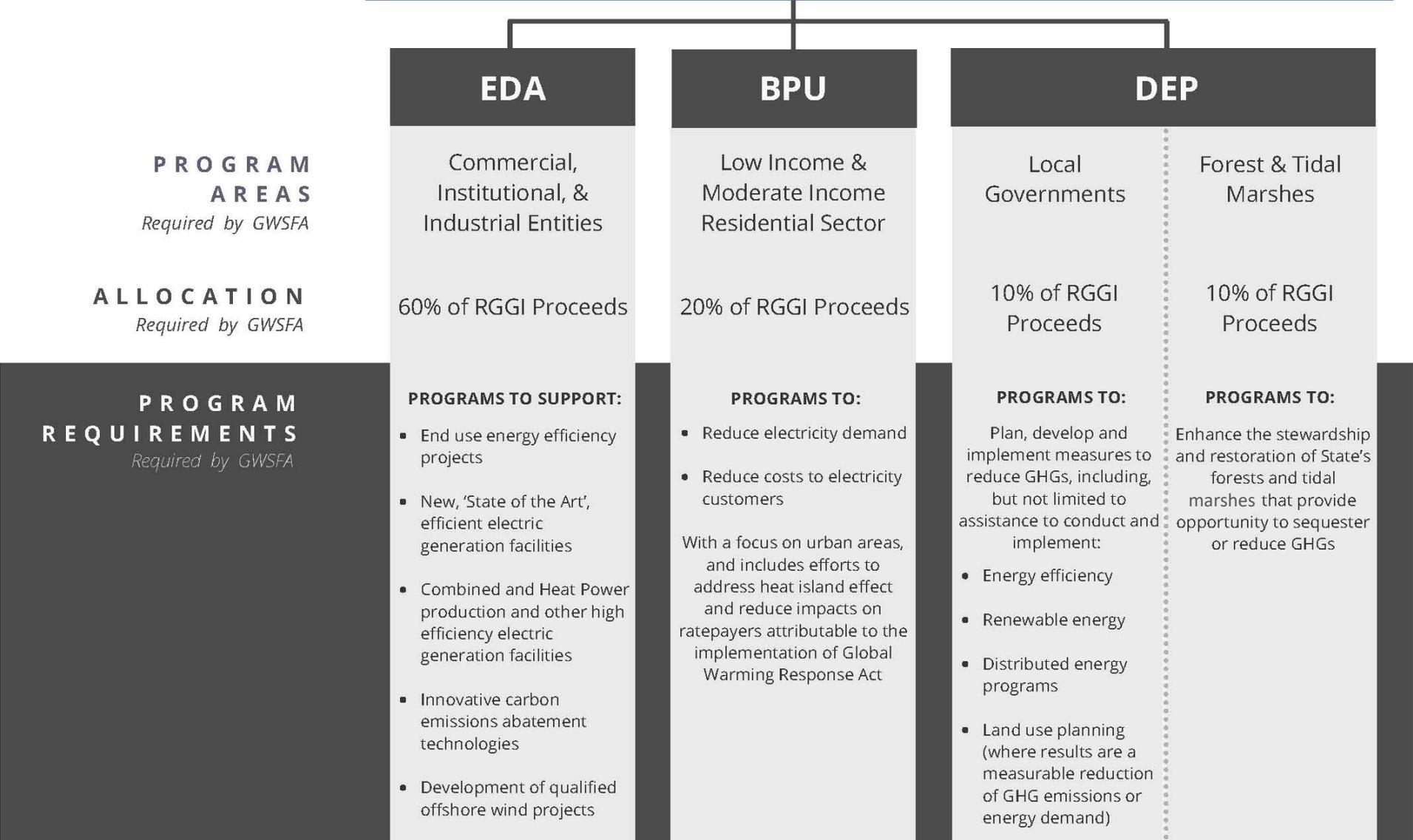
Report Out

Subsequent funding plans must report on previously funded projects and programs.

GLOBAL WARMING SOLUTIONS FUND ACT (GWSFA)

N.J.S.A 26:2C-52

- Allocates funding by percentage to three NJ Agencies
- Requires Agencies to spend RGGI funds within specific program areas



Strategic Funding Plan Objectives

1 Net reduction in greenhouse-gas emissions or net sequestration of carbon.

2 Significant reductions in greenhouse-gas emissions or energy demand and/or significant contribution to the achievement of the state's 2050 Global Warming Response Act limit (relative to cost).

3 Reduce energy use.

4 Be directly responsive to the recommendations submitted by the Department to the Legislature pursuant to the Global Warming Response Act.

5 Provide co-benefits to the state.

6 Be directly responsive to the negative effects on human health and the environment in communities that are disproportionately impacted by the effects of environmental degradation and climate change.

Global
Warming
Solutions
Fund Act

EO #7

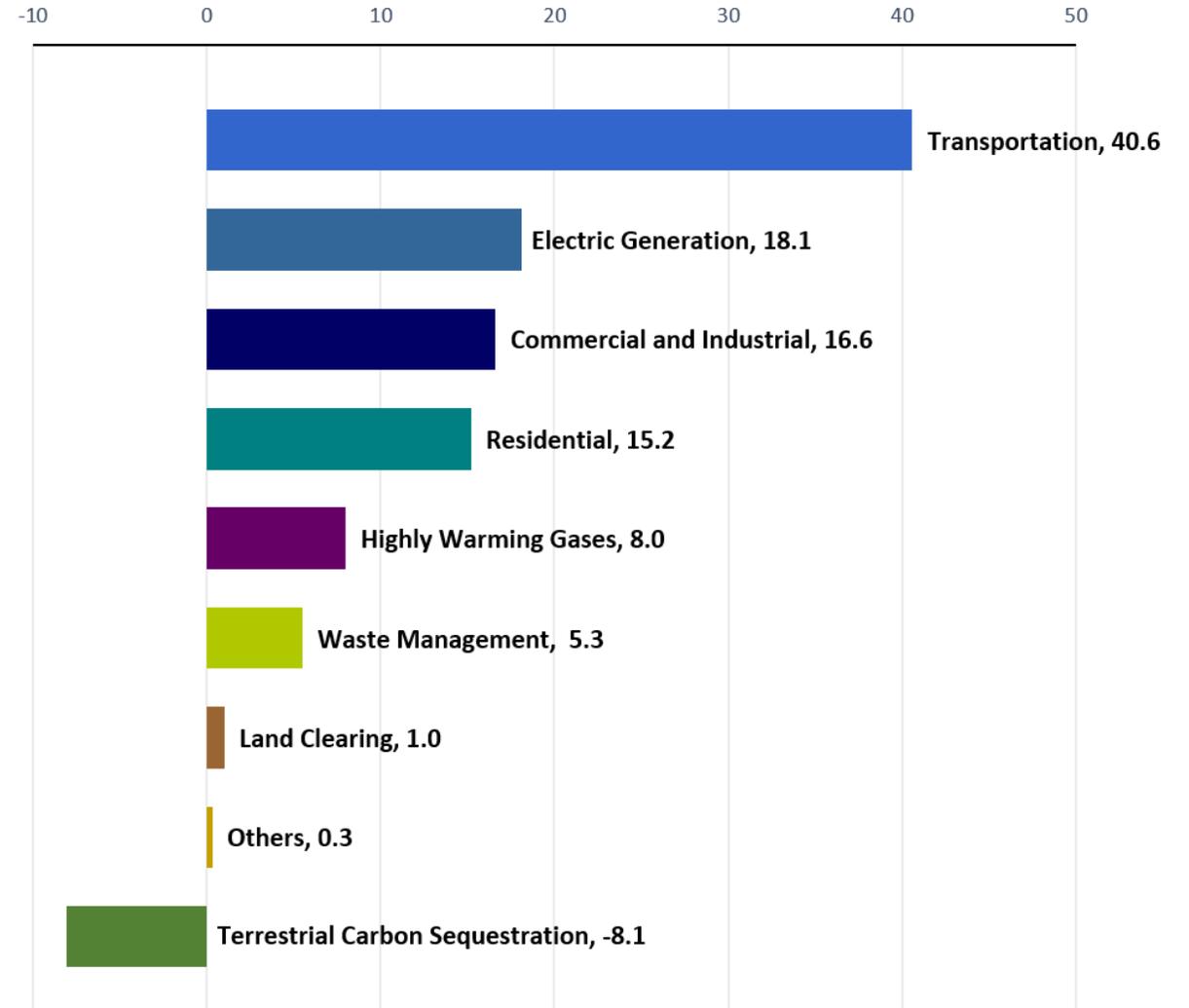
Strategic Funding Plan Objective #1

Net reduction in greenhouse gas emissions or net sequestration of carbon.

Estimated NJ Greenhouse Gas Emissions, 2018

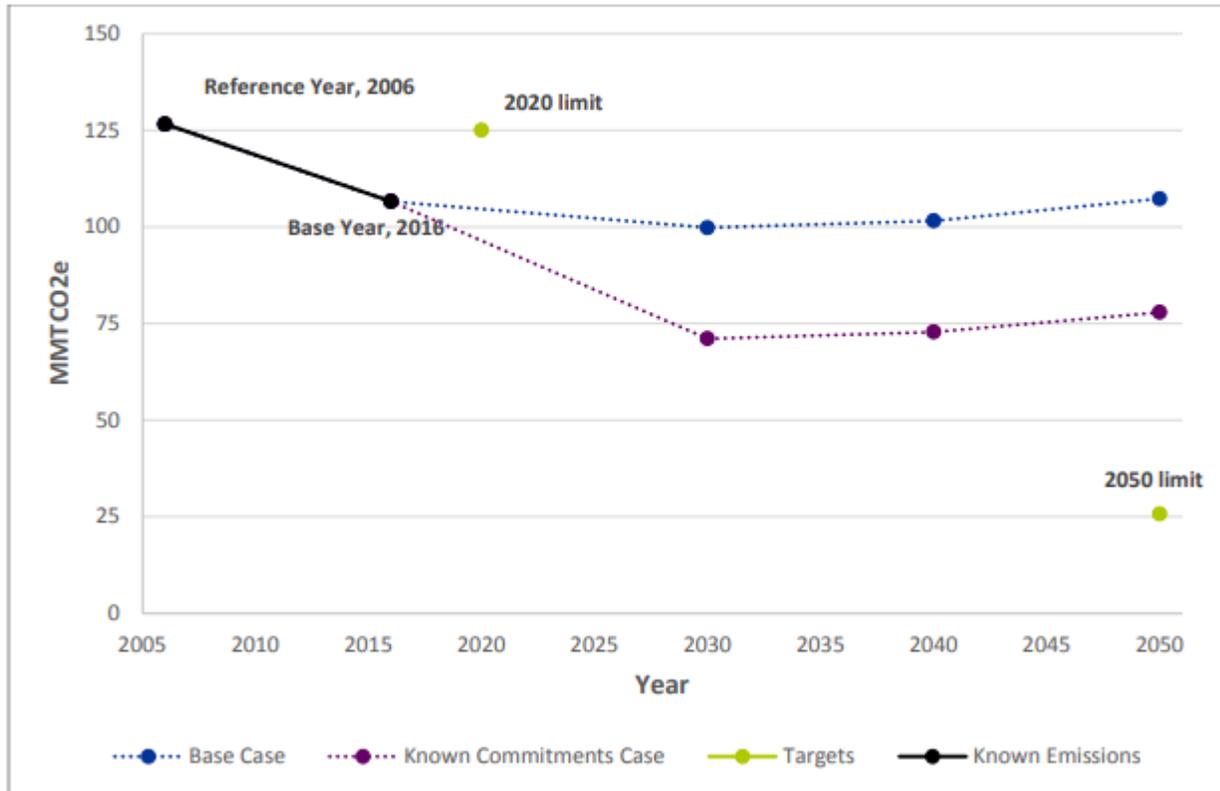
(in million metric tons CO₂e)

Total Net Emissions, 97.0 million metric tons CO₂e



Strategic Funding Plan Objective #2

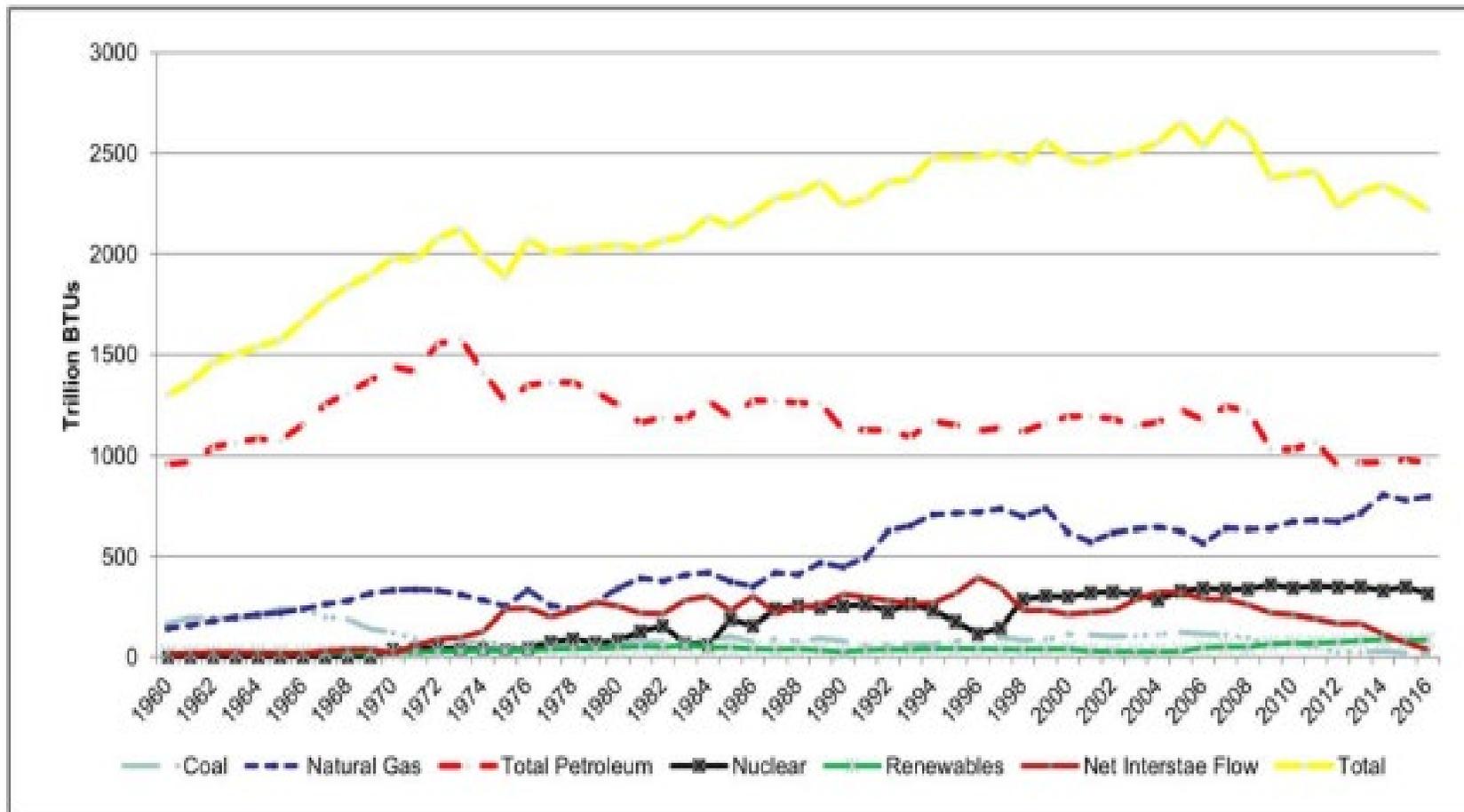
New Jersey's Greenhouse Gas Reduction Targets Including Clean Energy Act Mandates

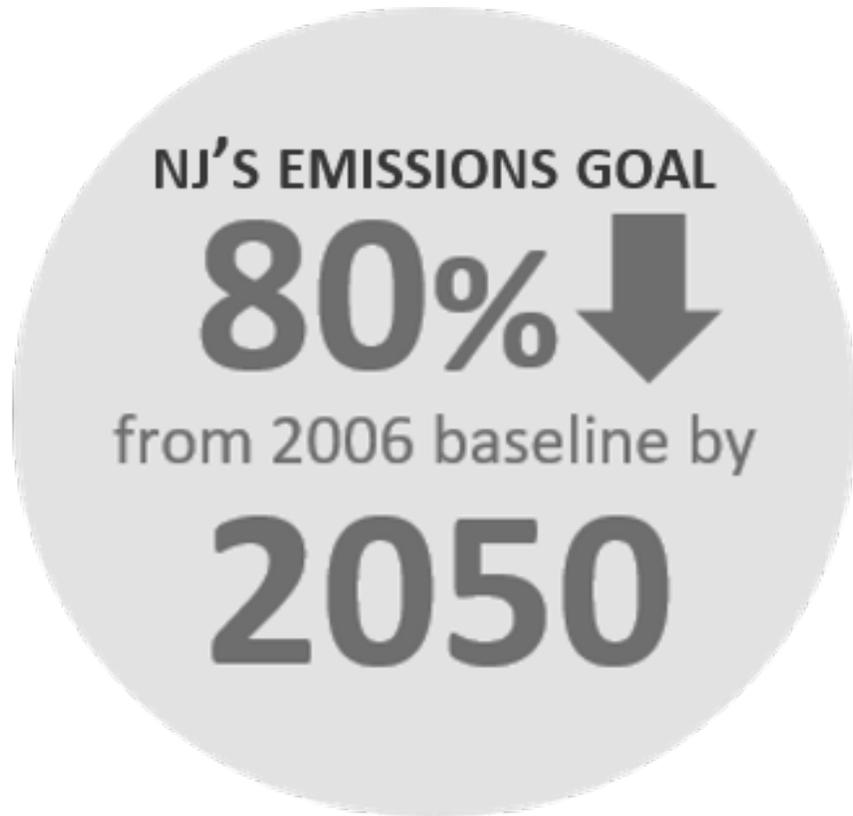


Significant reductions in greenhouse gas emissions or energy demand and/or significant contribution to the achievement of the state's 2050 Global Warming Response Act limit (relative to cost).

Reduce energy use.

New Jersey Primary Energy Consumption (Trillion BTUs) 1960-2016





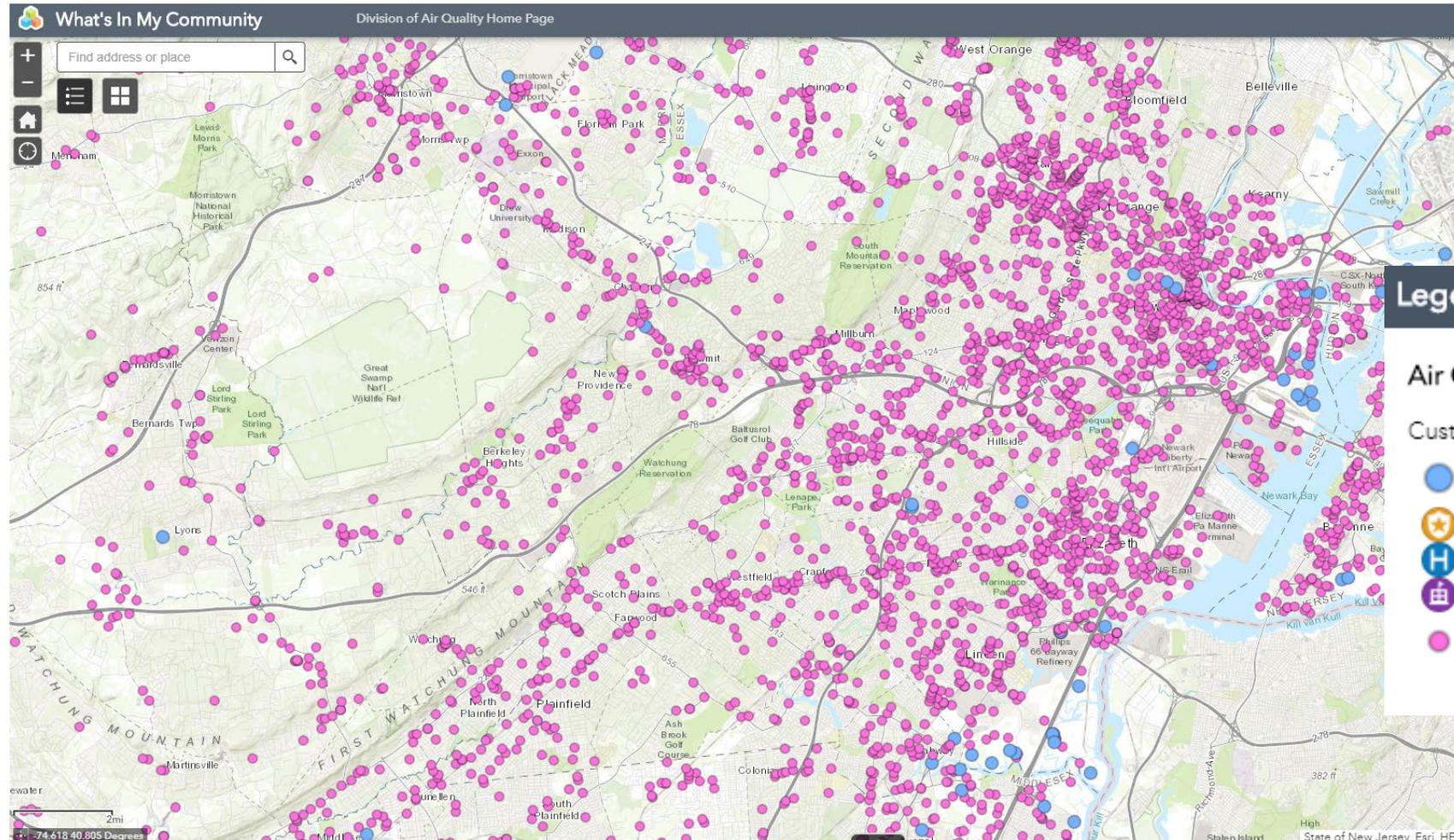
Be directly responsive to the recommendations submitted by the Department to the Legislature pursuant to the Global Warming Response Act.

Provide co-benefits to the state.



Strategic Funding Plan Objective #6

Be directly responsive to the negative effects on human health and the environment in communities that are disproportionately impacted by the effects of environmental degradation and climate change.



Legend

Air Quality Permitted Facilities

Custom

- Major Sources
- Emergency Services
- Hospitals
- Schools
- Other Minor Sources

Electrification of transportation in the State.



Provide meaningful benefits to communities most affected by pollution and climate change

What is the Scoping Document?

The Scoping Document is:

-  A tool to educate the public about the legal and regulatory framework surrounding the distribution of RGGI auction proceeds
-  Provides *example* initiatives that put the framework into context
-  Explains the Governor's funding priorities

The Scoping Document is not:

-  A draft strategic funding plan
-  A summary of the final initiatives that will be funded by the state agencies



Example Funding Initiatives



Initiative 1: Clean Transportation

Initiative One seeks to accelerate transportation electrification in the State, focusing on programs and projects that will have a beneficial impact on communities disproportionately impacted by the effects of environmental degradation and climate change.

Agency Sponsor(s):



NJEDA

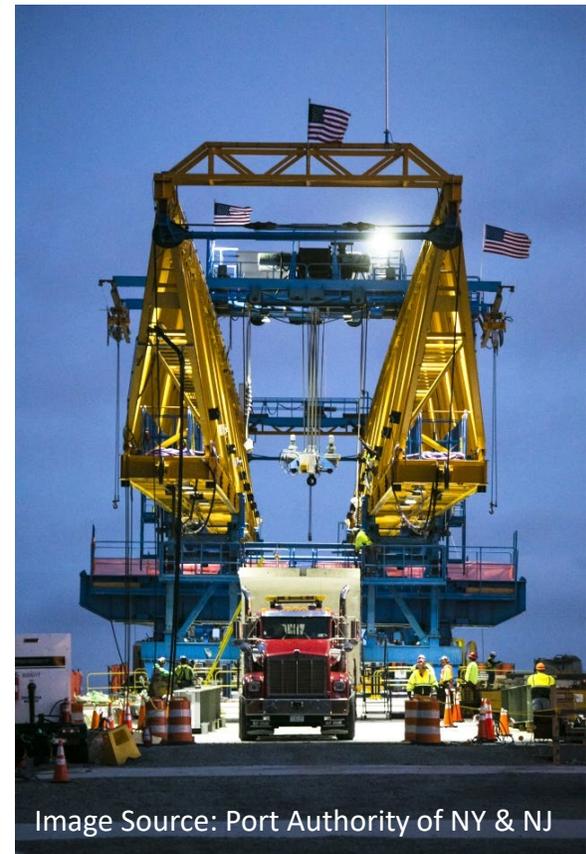


Image Source: Port Authority of NY & NJ

Initiative 1:
Clean Transportation
Feedback

Public Comments

1. Electrify public transportation in low- and moderate-income communities.
2. Increased access to public charging stations / hubs.
3. There is no mention of last mile solutions i.e. bike lanes, smart growth.
4. Make the Transit Village and Main Street NJ programs more proactive.
5. Decarbonize freight transportation. Require electrification hookups for these trucks at warehouses and ports.

Initiative 2: New Jersey Green Bank

Initiative Two seeks to increase the pace of clean energy investment through the creation of the New Jersey Green Bank. RGGI funding would be used by the NJEDA to capitalize a Green Bank to provide direct loans, or financial enhancements to support private lending.

Agency Sponsor(s):

NJEDA



Initiative 2:
New Jersey Green Bank
Feedback

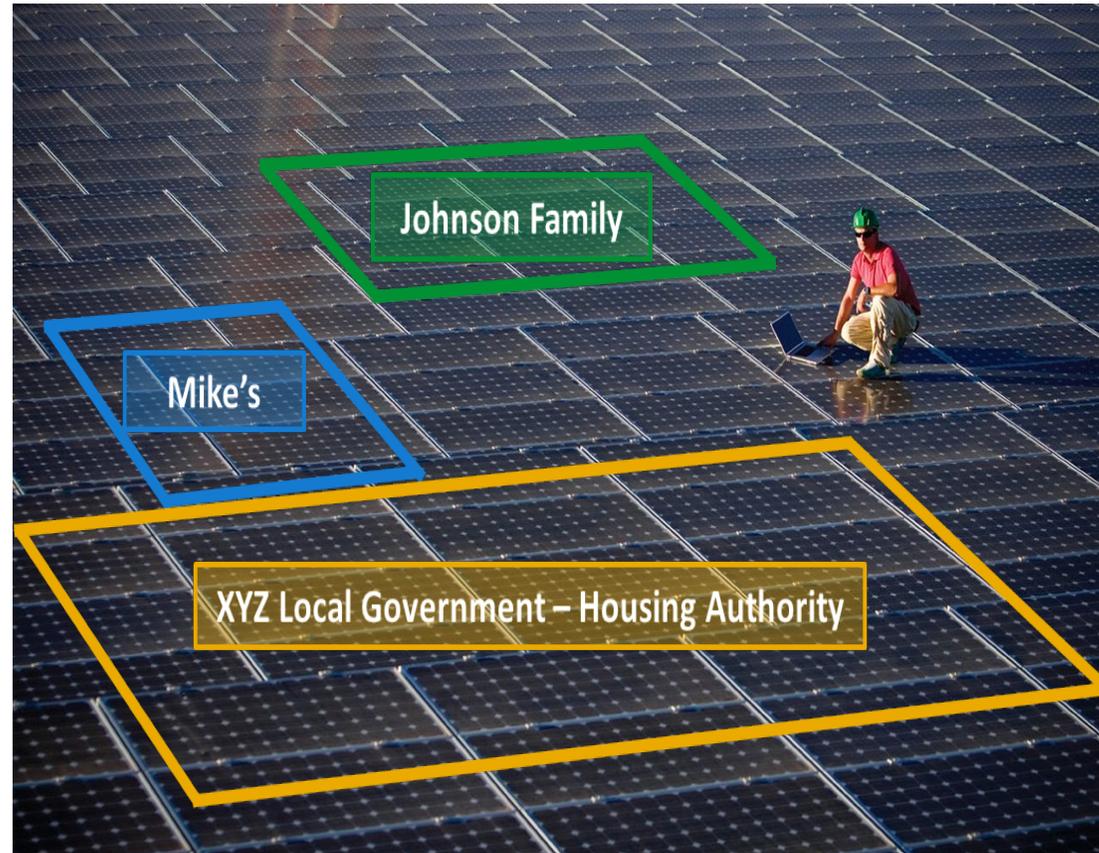
Public Comments

1. Incentivize the following:
 - a. Manufacturing of solar panels in New Jersey.
 - b. Supply chain for offshore wind.
 - c. Manufacturing of electric trucks and sub-component parts.
 - d. Nuclear energy.
 - e. Development of community financial institutions.
 - f. Moving private industry towards clean energy.
2. Concerns about duplication with the I-Bank.

Initiative 3: Community Clean Energy Microgrid

Initiative Three seeks to reduce electricity consumption in low- and moderate-income (LMI) households through the development and implementation of a **Community Clean Energy Microgrid (CCEM) program**, a coordinated, comprehensive, and holistic neighborhood energy approach for all LMI single- and multi-family building customers.

Agency Sponsor(s):



Initiative 3:
Community Clean Energy Grid
Feedback

Public Comments

1. Community Solar low- and moderate- income communities.
2. Many residents from Environmental Justice communities rent, and it is very difficult for them to have access to Renewable Energy.
3. There is a need for energy efficiency projects in residential sector (insulation, windows, boilers.)
4. Vehicle to Grid (V2G) technology.
5. Microgrids should be limited to renewable power sources.

Initiative 4: Net-Zero Energy Solutions for Waste Management

Initiative Four seeks to reduce emissions from waste disposal. Funding would be provided to facilities for net-zero energy use through the implementation of proven technologies and best practices in the areas of energy conservation, demand reduction and enhanced production.

Agency Sponsor(s):



Image Source: Princeton University

Initiative 4:
Net-Zero Energy Solutions
for Waste Management
Feedback

Public Comments

1. Support for Waste to Energy plants like in the Scandinavian countries. Biogas or landfill gas can be upgraded to CNG quality and can be used for clean transportation for local school buses and garbage trucks etc.
2. Fund municipalities to invest in collecting organic waste (food waste, brush, etc..).
3. Industrial composting at multi-unit residential buildings and large industrial facilities and academic centers.

Initiative 5: Beneficial Role of New Jersey Forests in the Carbon Cycle

Initiative Five seeks to promote, protect and maintain the beneficial role of New Jersey forests in the carbon cycle.

Agency Sponsor(s):



Image Source: NJ Tree Foundation



Initiative 5:
Beneficial Role of New Jersey
Forests in the Carbon Cycle
Feedback

Public Comments

1. Urban reforestation projects and programs.
2. Forests provide many co-benefits not only carbon sequestration but also, storm water management, reduce urban heat island effect and remove pollutants from urban areas.
3. RGGI funds should support projects that preserve our intact contiguous forest and not fragment our forests.
4. Forest inventory should identify where natural sequestration processes are working well and designate these areas for protection.
5. Restorative agriculture.

Initiative 6: Sequester “Blue Carbon” in Coastal Habitats

Initiative Six seeks to promote, protect and maintain the beneficial role of New Jersey tidal marshes in the carbon cycle.

Agency Sponsor(s):



Initiative 6:
Sequester “Blue Carbon”
in Coastal Habitats
Feedback

Public Comments

1. Wetland / Tidal Marsh sequestration has the highest carbon removal potential but the shortest timeline to be implemented due to sea level rise; add focus of wetland resiliency to benefits of restoring them in conjunction with carbon sequestration.
2. Dredging should have more focus placed on it (restoration, sampling, procedure and money that goes into it). Municipalities need assistance.
3. Much attention has been given to the coast and the Delaware Bay Shore has been overlooked.
4. Co-benefit of restoring wetlands is hurricane relief. The final plan should emphasize this since more intensive storms are expected for New Jersey.

Initiative 7: Strengthen Clean Tech Innovation

Under this initiative, NJEDA could provide funding and in-kind assistance to strengthen clean tech innovation in the state through support for the innovation ecosystem (e.g., incubators, proof of concept centers, research databases, etc.), the funding of individual early-stage clean tech companies and entrepreneurs, and support for basic research.

Agency Sponsor(s):



Initiative 7:
Strengthen Clean Tech
Innovation
Feedback

Public Comments

32

1. Need for multi-institution (Academic Government, Industry) innovation centers.
2. Create a framework where governments or recipients of funding require local job guarantee.
3. Wind farms can provide NJ with best opportunities for job creation and should be prioritized.
4. Prioritize the incentivization of startup ventures that do not rely on animal agriculture (i.e. plant based & cell based meat).
5. Focus on energy consumption and energy generation.

Example Funding Initiatives

Objectives

	Initiative 1 Clean Transportation	Initiative 2 New Jersey Green Bank	Initiative 3 Community Clean Energy Microgrid	Initiative 4 Net-Zero Energy Solutions for Waste Management	Initiative 5 Beneficial Role of New Jersey Forests in the Carbon Cycle	Initiative 6 Sequester "Blue Carbon" in Coastal Habitats	Initiative 7 Strengthen Clean Tech Innovation
1. A net reduction in greenhouse gas emissions or a net sequestration of carbon;	C C	C	C	C	C	C	C
2. Significant reductions in greenhouse gas emissions, reduction of impacts on ratepayers, and a significant contribution to the achievement of the State's 2050 Global Warming Response Act limit, relative to the cost of the project or program;			C				
3. Reduction in energy use;			C	C			
4. Be directly responsive to the recommendations submitted by the Department to the Legislature pursuant to the Global Warming Response Act;	C C		C	C	C	C	C
5. Provide co-benefits; and	C C		C	C	C	C	C
6. Be directly responsive to the negative effects on human health and the environment in communities that are disproportionately impacted by the effects of environmental degradation and climate change.	C C		C	C			

Key

NJBPU

NJEDA

NJDEP Local Govt.

NJDEP Marsh/Forest

Additional Feedback | Environmental Justice

1. Make sure language is clear that emission reductions happen in EJ communities. EJ communities must foster true ownership of project.
2. Many of the residents from Newark (for example) rent homes, and it is very difficult for them to have access to renewable energy, since it typically requires home ownership.
3. Make sure that material is available in multiple languages.
4. Make clean transportation applicable to EJ communities.

Additional Feedback | Metrics of Success

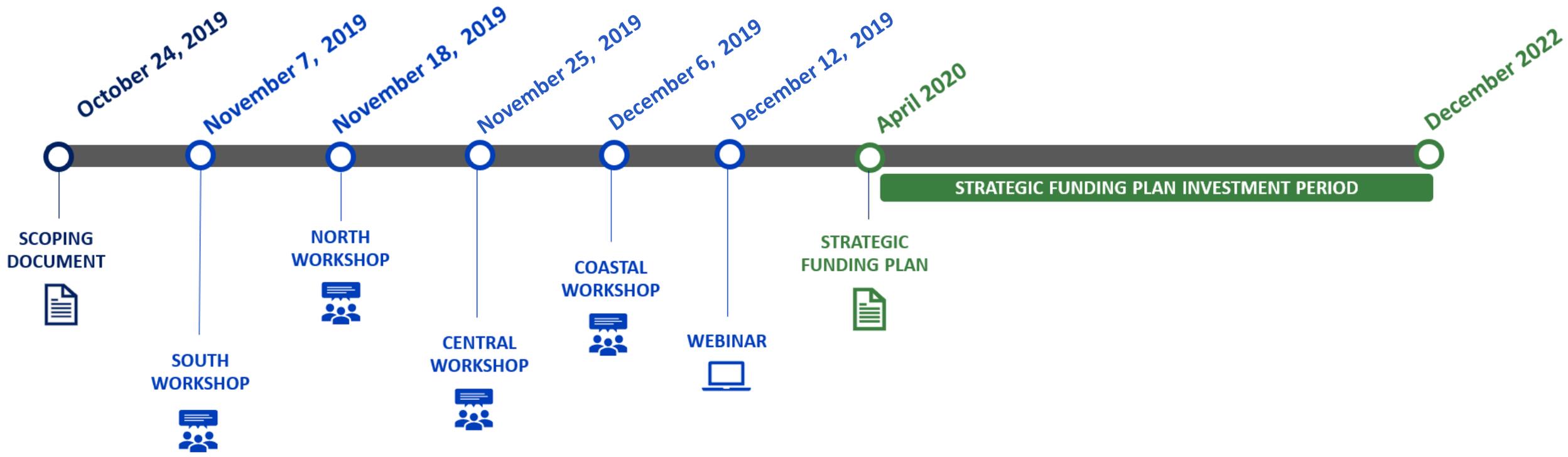
1. Improved air quality.
2. Completion of projects.
3. Reduced fossil fuel consumption.
4. Reduced cost of energy.
5. Cost benefit analysis.
6. Reduced emissions.
7. Making sure to report results to the public.
8. Justify the number of projects before you begin.
9. Metrics on the front page of the RGGI – greenhouse gas meter, dashboard.
10. Compare, short term, medium term and long-term benefits.
11. Reliability – does the project work? For example, a renewable energy project, is it supplying the energy/performing as proposed.
12. Performance criteria, what are benefits (resilience, carbon sequestration, habitat restoration).
13. Outreach templates for towns. Success stories sell themselves.

Additional Feedback | **Economic Co-benefits**

1. Job creation.
2. Apprenticeships and prevailing wage.
3. Work with higher education and community colleges to work on high tech vehicles.
4. Supply chain jobs for wind would be a good job creator for New Jersey.
5. Installation of EV chargers will require more electrician and fewer mechanics.

Additional Feedback | Outreach & Communication

1. Educate young students about the importance of clean energy. They will grow up more responsibly and become community leaders. Education and awareness overall should be prioritized.
2. Find a way to work with Sustainable Jersey and have resources for communities.
3. Coordination of agencies to sync up dates with the initiative deadlines and agencies should work together on all initiatives for the greater benefit overall.
4. Community ambassadors who are trained to talk about projects/programs.
5. Create a crowdsource funding campaign, as a way for the public donate to RGGI.



Question & Answer

Q&A Panelists



Christine Schell

Office of the Assistant Commissioner of Air Quality, Energy and Sustainability, New Jersey
Department of Environmental Protection



Jonathan Ratner

Clean Energy/Green Finance Officer, New Jersey Economic Development Authority



Mike Winka

Senior Policy Advisory, New Jersey Board of Public Utilities

RGGI Webinar



Skype Q&A

your name (optional)

ask a question

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top all my questions 

To leave a question or comment:

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Contact Us: njrggi@dep.nj.gov

Website: nj.gov/rggi/