



New Jersey's
cleanenergy
program™

New Jersey's Clean Energy Program™



School and Small Business
Energy Efficiency Stimulus Programs



Speakers

- Kevin Nedza, NJ Board of Public Utilities (BPU)
- Lori Carlin, NJ Clean Energy Program Outreach
- Karin Lang, TRC (Program Administrator)
- Geoff Horvath, TRC (Program Administrator)

Agenda

- New Jersey's Clean Energy Program
- School and Small Businesses Stimulus
 - Overview
 - Eligibility
 - Incentives
 - HVAC
 - Plumbing & Appliances

New Jersey Board of Public Utilities



The New Jersey Board of Public Utilities (NJBP) is the state agency with authority to oversee the regulated utilities, which provide critical services such as **natural gas**, **electricity**, water, telecommunications, and cable television.

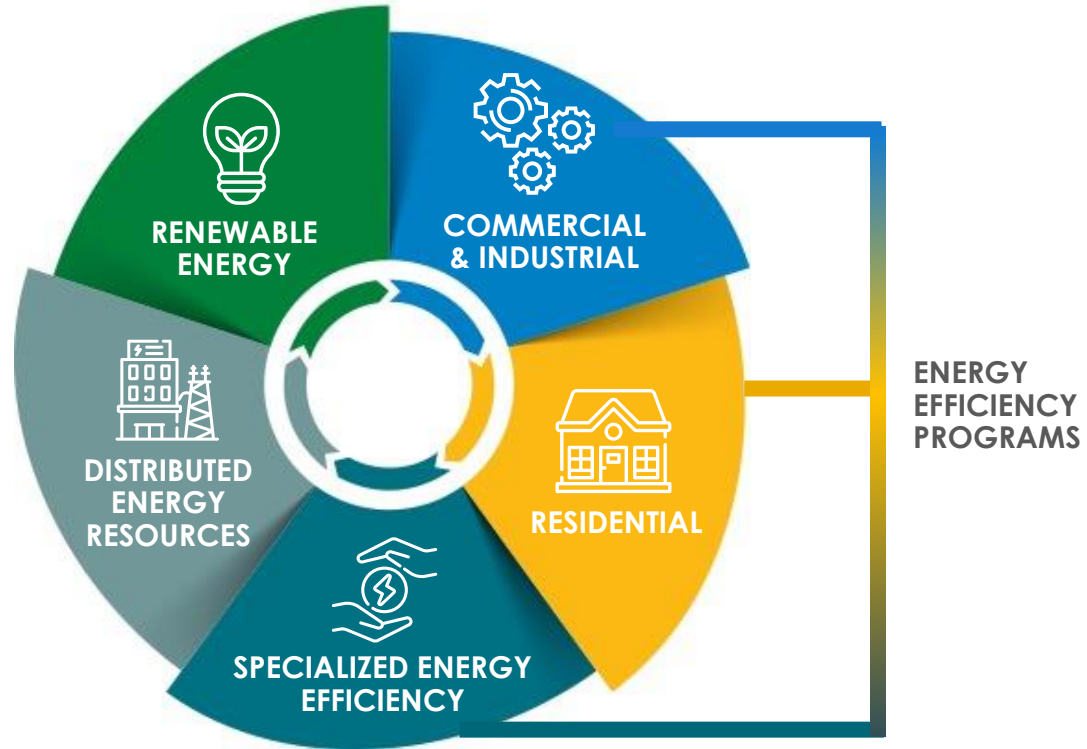
The NJBP's mission is to ensure safe, adequate, and proper utility services at reasonable rates for customers in New Jersey.



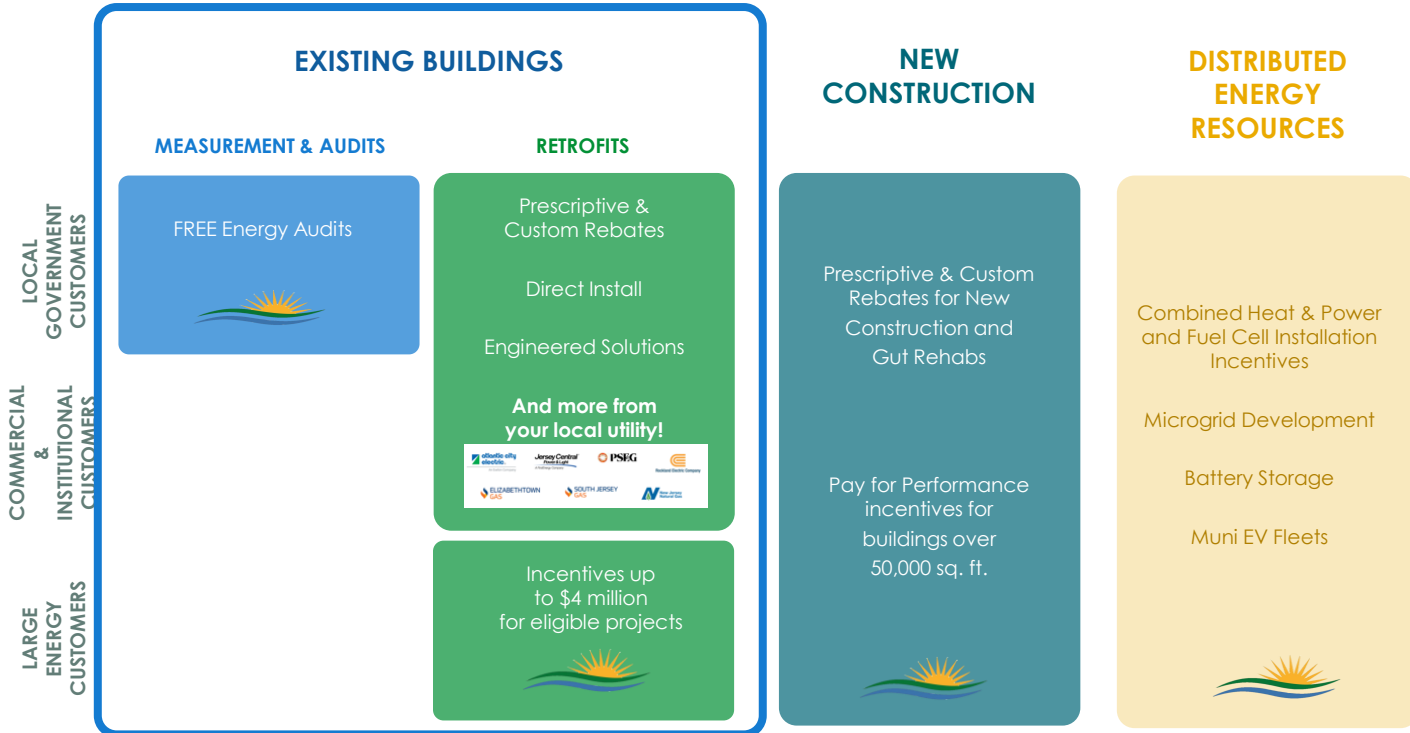
NEW JERSEY'S CLEAN ENERGY PROGRAM OPPORTUNITIES




NJCEP Portfolio of Programs




NJCEP Commercial & Industrial Programs



Key:

 Programs run by NJCEP

 Programs run by investor-owned utility companies

More Information

VISIT

NJCleanEnergy.com

CONTACT

(866) 657-6278

Outreach@NJCleanEnergy.com

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VENTILATION AND ENERGY EFFICIENCY VERIFICATION AND REPAIR (SSB-VEEVR)
NONCOMPLIANT PLUMBING FIXTURE AND APPLIANCE (SSB-NPFA)

Overview

HVAC

Maintenance Pathway

- Maintain
- Repair
- Upgrade

Replacement/ New Pathway

- New systems
- Replaced systems or units

Plumbing & Appliances

- Low-flow devices
- Toilets
- Urinals
- Commercial dishwashers
- Ice makers
- Clothes washers

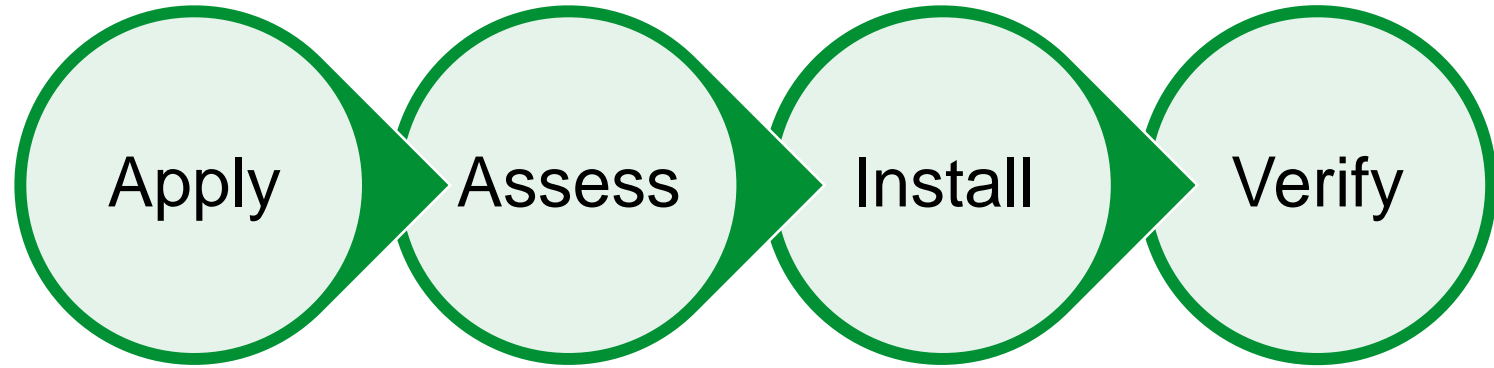
Overview - Eligibility

- **Boards of Education** include public schools, such as local school districts, consolidated school districts, regional school districts, county vocational schools, and charter schools.
 - Private schools are not eligible.
 - Non-profit organizations are not eligible.
- **Small Businesses** include New Jersey-based businesses which:
 - Are independently owned and operated;
 - Have no more than 100 full-time employees;
 - Have annual gross revenues that does not exceed \$12 million; AND
 - Are **certified** by the State as a women or minority-owned business
 - <https://business.nj.gov/pages/certifications>

Overview - Incentives

- Grants cover up to 75% of costs
 - Utility program funding and financing may be available for 25% share
- Funding Caps:
 - Boards of Education - \$5 million per entity
 - Small Businesses - \$500,000 per entity

Overview - Process



VENTILATION AND ENERGY EFFICIENCY VERIFICATION AND REPAIR (SSB-VEEVR)



What is Assessment and Testing?

- What is it?
- Who does it?
- Why is it important?



Finding Qualified Personnel

Testing and Balancing Technicians

AABC

Associated Air Balance Council

<https://www.aabc.com/member-locator-alphabetical-order/>

NEBB

National Environmental Balancing Bureau

<https://online.nebb.org/nebbssa/f?p=NEBBSSA:17800:4175906800707>
(search for “Testing and Balancing of Environmental Systems”)

TABB

Testing, Adjusting and Balancing Bureau

<https://www.tabbcertified.org/find-a-contractor/>
(search for “TABB Contractor”)

Finding Qualified Personnel

Certified Energy Auditor

Professional Engineer (PE)

Existing engineering relationships

Certified Energy Manager Certification (Association of Energy Engineers)

Coming Soon....Added to NJCEP website

Others qualified to perform ASHRAE Level II or III energy audit

Proven competency in energy billing analysis, building performance assessment (to the standard of a Level II ASHRAE energy audit), work scope development, design document review, work scope installation verification and oversight of project progress through construction.

Contact SSBStimulus@NJCleanEnergy.com

Maintenance Pathway

HVAC

Maintenance Pathway

- Maintain
- Repair
- Upgrade

Replacement/ New Pathway

- New systems
- Replaced systems or units

- Maintain, repair, and minor system upgrades
- CO2 monitors
- Excludes the installation of new HVAC units

Maintenance Pathway - Process

Application

- Determine Pathway
- Complete & Submit Application

HVAC Assessment Report

- Engage Testing & Balancing Technician (“TAB Technician”)
- Complete HVAC Assessment Report and Cost Estimate
- Independent review by Certified Energy Auditor

Installation

- Perform the work identified in the HVAC Assessment Report

HVAC Verification Report

- Complete HVAC Verification Report
- Program site inspection

Maintenance Pathway - Example

Hypothetical Example:

- 1 Middle School
- 20 Classrooms
- 20 HVAC Systems
- 20 Filters



Maintenance Pathway - Example

Example Budget			
	Unit Cost	# of Units	Total Cost
Installation			
Filter Replacement	\$ 40	20	\$ 800
Carbon Dioxide Monitors	\$ 500	20	\$ 10,000
Repair Cost	\$ 5,000	10	\$ 50,000
Assessment & Verification	\$ 5,000	1	\$ 5,000
Total Project Cost			\$ 65,800
Grant Funding (75%)			\$ 49,350
Customer Commitment (25%)			\$ 16,450

Maintenance – Payment Milestones

Eligible Costs:

- HVAC assessment, testing & balancing
- General maintenance & repair
- Adjustment of ventilation rates
- Filter replacement
- Carbon dioxide monitor installation
- Preparation of the HVAC Assessment Report
- Preparation of the HVAC Verification Report

Payment 1

Assessment

- 50% of grant
- Deliverable: HVAC Assessment Report

Payment 2

Project Completion

- 50% of grant
- Deliverable: HVAC Verification Report



HVAC REPLACEMENT/NEW PATHWAY

Replacement/New Pathway

HVAC

Maintenance Pathway

- Maintain
- Repair
- Upgrade

Replacement/ New Pathway

- New systems
- Replaced systems or units

- Replace existing systems or units
- New systems or units
- CO2 monitors

Replacement/New - Process

Application

- Determine Pathway
- Complete & Submit Application

HVAC Assessment Report

- Engage Testing & Balancing Technician (“TAB Technician”)
- Complete HVAC Assessment Report and Cost Estimate
- Independent review by Certified Energy Auditor

Installation

- Perform the work identified in the HVAC Assessment Report

HVAC Verification Report

- Complete HVAC Verification Report
- Program site inspection

Replacement/New – Payment Milestones

Eligible Costs:

- HVAC assessment & testing
- New system or unit installation
- Carbon dioxide monitor installation
- Preparation of the HVAC Assessment Report
- Preparation of the HVAC Verification Report

Payment 1

Assessment

- Cost of HVAC Assessment
- Deliverable: HVAC Assessment Report

Payment 2

Equipment Procurement

- Material Costs
- Deliverable: Material invoices or purchase orders

Payment 3

Project Completion

- Balance of grant
- Deliverable: HVAC Verification Report

Ineligible Costs

Grant funding may not be used for:

- Costs for boilers or other types of HVAC equipment that do not directly and significantly affect **ventilation or airflow**.
- Costs associated with the use and continuous monitoring of the carbon dioxide monitors, such as electrical improvements, subscription services, storage, and central hubs.
- Purchase of equipment that is not an integral part of the project.
- Consultant fees (other than those for Qualified Personnel and Certified Energy Auditors).
- Equipment **installed** prior to Application Approval.



NONCOMPLIANT PLUMBING FIXTURE AND APPLIANCES (SSB-NPFA)

Plumbing/Appliances - Process

Plumbing & Appliances

- Low-flow devices
- Toilets
- Urinals
- Commercial dishwashers
- Ice makers
- Clothes washers

Application

- Complete & Submit Application
- Develop your scope of work and cost estimate

Installation

- Install the equipment

Verification

- Plumbing & Appliances Verification Report
- Program site inspection

What Can You Replace?

Plumbing Fixtures

1. A toilet manufactured to use more than 1.6 gallons of water per flush.
2. A urinal manufactured to use more than one gallon of water per flush.
3. A showerhead manufactured to have a flow capacity of more than 2.5 gallons of water per minute.
4. An interior faucet that emits more than 2.2 gallons of water per minute.

What Can You Replace?

Appliances

1. Commercial dishwasher manufactured before January 1, 2010 that does not meet the efficiency requirement of the ENERGY STAR® Product Specification for Commercial Dishwashers, Version 1.1.
2. An automatic commercial ice maker manufactured before January 1, 2010 that does not meet the efficiency requirement of the ENERGY STAR Product Specification for Automatic Commercial Ice Makers, Version 1.0.
3. A commercial clothes washer manufactured before January 1, 2010 that does not meet the efficiency requirement of the ENERGY STAR Product Specification for Clothes Washers, Version 5.0.



Rule of Thumb – Is it more than 10 years old?

Plumbing/Appliance - Example

Hypothetical Example:

- 1 School
- Assorted Restrooms
- Kitchen with dishwasher



Plumbing/Appliance - Example

Example Budget			
	Materials & Labor per unit	# of Units	Total Cost
Installation			
Faucet Aerators	\$10	40	\$ 400
Toilets	\$776	40	\$ 31,050
Urinals	\$604	30	\$ 18,113
Commercial Dishwasher	\$12,000	1	\$ 12,000
Total Project Cost			\$ 61,563
Grant Funding (75%)			\$ 46,172
Customer Commitment (25%)			\$ 15,391

Plumbing & Appliance – Payment Milestones

Eligible Costs:

- Equipment costs
- Labor costs



Project Completion

- 100% of grant

Ineligible Costs

Grant funding may not be used for:

- Purchase of equipment that is not an integral part of the project.
- Consultant fees (other than those for Qualified Personnel and Certified Energy Auditors).
- Equipment installed prior to Application Approval.

Resources

- Program Website

- <https://njcleanenergy.com/school-and-small-business-energy-efficiency-stimulus-program>

- Woman- and Minority-Owned Business Certification

- <https://business.nj.gov/pages/certifications>

- Learn more about Indoor Air Quality in Schools

- [EPA's Energy Savings Plus Health: Indoor Air Quality Guidelines for School Building Upgrades](#)
 - [EPA's School Indoor Air Quality Assessment Mobile App](#)

Let's talk about your project!

Schools & Small Business Program Questions

Ready to get started?

Contact us at:

SSBStimulus@njcleanenergy.com

Not Sure Which Program is Right for You?

Work with a Clean Energy Program
Account Manager to find the right
path.

Contact us at:

outreach@njcleanenergy.com

(866) 657-6278

THANK YOU

