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
The New Jersey Board of Public Utilities (NJBPU) 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 NJBPU’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

- Commercial & Industrial
- Renewable Energy
- Distributed Energy Resources
- Residential
- Specialized Energy Efficiency

Energy Efficiency Programs
NJCEP Commercial & Industrial Programs

EXISTING BUILDINGS

MEASUREMENT & AUDITS
FREE Energy Audits

RETROFITS
Prescriptive & Custom Rebates
Direct Install
Engineered Solutions
And more from your local utility!

Incentives up to $4 million for eligible projects

NEW CONSTRUCTION
Prescriptive & Custom Rebates for New Construction and Gut Rehabs

Pay for Performance incentives for buildings over 50,000 sq. ft.

DISTRIBUTED ENERGY RESOURCES
Combined Heat & Power and Fuel Cell Installation Incentives
Microgrid Development
Battery Storage
Muni EV Fleets

Key:
Programs run by NJCEP
Programs run by investor-owned utility companies
More Information

VISIT
NJCleanEnergy.com

CONTACT
(866) 657-6278
Outreach@NJCleanEnergy.com

NEWSLETTER
NJCleanEnergy.com/NEWSLETTER

LISTSERVS
NJCleanEnergy.com/LISTSERVS

@NJCleanEnergy
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](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

- Apply
- Assess
- Install
- Verify
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

<table>
<thead>
<tr>
<th>Organization</th>
<th>Website Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AABC</strong></td>
<td><a href="https://www.aabc.com/member-locator-alphabetical-order/">https://www.aabc.com/member-locator-alphabetical-order/</a></td>
</tr>
<tr>
<td>Associated Air Balance Council</td>
<td></td>
</tr>
<tr>
<td>National Environmental Balancing Bureau</td>
<td></td>
</tr>
<tr>
<td><strong>TABB</strong></td>
<td><a href="https://www.tabbcertified.org/find-a-contractor/">https://www.tabbcertified.org/find-a-contractor/</a> (search for “TABB Contractor”)</td>
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<tr>
<td>Testing, Adjusting and Balancing Bureau</td>
<td></td>
</tr>
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</table>
## Finding Qualified Personnel

<table>
<thead>
<tr>
<th>Certified Energy Auditor</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Professional Engineer (PE)</strong></td>
<td>Existing engineering relationships</td>
</tr>
<tr>
<td><strong>Certified Energy Manager</strong></td>
<td>Coming Soon….Added to NJCEP website</td>
</tr>
<tr>
<td>Certification</td>
<td>(Association of Energy Engineers)</td>
</tr>
<tr>
<td><strong>Others</strong> qualified to perform ASHRAE</td>
<td>Proven competency in energy billing analysis, building</td>
</tr>
<tr>
<td>Level II or III energy audit</td>
<td>performance assessment (to the standard of a Level II ASHRAE</td>
</tr>
<tr>
<td></td>
<td>energy audit), work scope development, design document review,</td>
</tr>
<tr>
<td></td>
<td>work scope installation verification and oversight of project</td>
</tr>
<tr>
<td></td>
<td>progress through construction.</td>
</tr>
<tr>
<td></td>
<td>Contact <a href="mailto:SSBStimulus@NJCleanEnergy.com">SSBStimulus@NJCleanEnergy.com</a></td>
</tr>
</tbody>
</table>
• 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
Hypothetical Example:
• 1 Middle School
• 20 Classrooms
• 20 HVAC Systems
• 20 Filters
## Maintenance Pathway - Example

### Example Budget

<table>
<thead>
<tr>
<th></th>
<th>Unit Cost</th>
<th># of Units</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Installation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter Replacement</td>
<td>$</td>
<td>40</td>
<td>20 $</td>
</tr>
<tr>
<td>Carbon Dioxide Monitors</td>
<td>$</td>
<td>500</td>
<td>20 $</td>
</tr>
<tr>
<td>Repair Cost</td>
<td>$</td>
<td>5,000</td>
<td>10 $</td>
</tr>
<tr>
<td>Assessment &amp; Verification</td>
<td>$</td>
<td>5,000</td>
<td>1 $</td>
</tr>
<tr>
<td><strong>Total Project Cost</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grant Funding (75%)</td>
<td></td>
<td></td>
<td>$ 49,350</td>
</tr>
<tr>
<td>Customer Commitment (25%)</td>
<td></td>
<td></td>
<td>$ 16,450</td>
</tr>
</tbody>
</table>
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

- Replace existing systems or units
- New systems or units
- CO2 monitors
## Replacement/New - Process

<table>
<thead>
<tr>
<th>Step</th>
<th>Tasks</th>
</tr>
</thead>
</table>
| **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
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


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

- 1 School
- Assorted Restrooms
- Kitchen with dishwasher
### Example Budget

<table>
<thead>
<tr>
<th>Installation</th>
<th>Materials &amp; Labor per unit</th>
<th># of Units</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faucet Aerators</td>
<td>$10</td>
<td>40</td>
<td>$400</td>
</tr>
<tr>
<td>Toilets</td>
<td>$776</td>
<td>40</td>
<td>$31,050</td>
</tr>
<tr>
<td>Urinals</td>
<td>$604</td>
<td>30</td>
<td>$18,113</td>
</tr>
<tr>
<td>Commercial Dishwasher</td>
<td>$12,000</td>
<td>1</td>
<td>$12,000</td>
</tr>
</tbody>
</table>

**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

Payment 1

Project Completion
• 100% of grant
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

• 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