

P-12 Schools: Green and Clean Energy Solutions

*Program Opportunity Notice
(PON) 4157*

December 5, 2019



Green & Clean Energy Solutions: Goal

- > Reduce school energy loads and assist in the conversion to carbon free fuels.

Green & Clean Energy Solutions: Overview

- > **Three Offerings:**

- Energy Studies

- Design: Clean Heating and Cooling and Net Zero

- Direct Incentives

- > **Two Complimentary Services:**

- Benchmarking

- Clean Heating and Cooling Technology Screening

Why Participate in Green & Clean?

- > **Reduce** annual energy expenditures
- > **Identify** energy saving opportunities
- > **Use** feasibility studies and project incentives in capital planning phase
- > **Increase** student and teacher comfort, productivity, and health
- > **Reduce** maintenance time and costs
- > **Track** and communicate results

Eligibility Requirements:

- > Schools must be located in New York State and:
 - Be a publicly or privately owned school
 - Provide P-12 education
 - Be solely occupied by P-12 students and staff
 - Pay into the Systems Benefit Charge (SBC) on their electric utility bill

- > Applications may be submitted by the school, school district, or by a representative authorized by the school
 - Incentive will be distributed to the Applicant

Green & Clean Energy Solutions: Offerings Overview

Cost-Sharing: Energy Studies

- > Cost-share eligible study costs (up to \$250,000 per project)
 - Most projects: up to 75%
 - High-Need schools: up to 100%
- > Energy Study Examples:
 - Evaluation of energy efficiency measures
 - Carbon reduction studies
 - Central heating and cooling systems for conversion off fossil fuels
 - Peak load shedding and shifting
 - Renewable generation
 - Retro-commissioning
 - Strategic planning

Cost-Sharing: Design

Clean Heating and Cooling and Net Zero Design Projects

> Cost-share eligible design costs (up to \$250,000 per project)

- Most projects: up to 75%
- High-need schools: up to 100%

> Clean Heating and Cooling:

- Space and/or water heating or cooling without the use of fossil fuels
 - Eligible Projects: Ground Source Heat Pumps (GSHP), Air Source Heat Pumps (ASHP) and Variable Refrigerant Flow Systems (VRF)
 - Eligible Costs: Development of load calculations, equipment schedules, drawings, mechanical plans, and test boreholes

> Net Zero:

- Evaluate reduced energy use of 20% better than current NYS energy codes and estimate the impact of the design against school's net zero potential
 - Eligible Projects: Energy efficiency improvements, clean energy projects, on-site renewable energy, battery storage
 - Eligible Costs: Design of clean energy and energy efficiency improvements, energy modeling and analysis, integrated project delivery and Net Zero design charettes.

Direct Incentives

- > Installation of measures that result in an energy load reduction through mechanical, equipment and building envelope efficiency efforts.
- > List of Prequalified Direct Incentives on the [Program Website](#)
 - Subject to change – check back for updates.
- > Custom Direct Incentives
 - For measures not included in the pre-qualified measure list, a custom incentive may be available.
 - Energy calculations are not required for custom measure submissions.
- > Eligibility:
 - Projects eligible for existing investor owned utility incentives are ineligible for incentives through the Program.
 - New fossil fuel-based systems are ineligible.

Green & Clean Energy Solutions: Complimentary Services

Enrollment In: P-12 Benchmarking Program ([PON 3908](#))

> Schools can receive FREE benchmarking services

> **How it Works**

- NYSERDA consultants provide free benchmarking services for up to three years
- Receive detailed reports summarizing your school's energy use, costs, water use, and carbon emissions over time and compared to other schools across the state

> **Benefits**

- Better understand energy use
- Recognition for environmental efforts
- Healthier and more productive learning environments
- Inform energy conservation policy and program development
- Support financial planning and budgeting efforts
- Increased stakeholder awareness about energy consumption impacts

Enrollment In: Clean Heating and Cooling: Technology Screenings

> Schools can receive a FREE Clean Heating and Cooling Technology Screening

> **How it works**

- NYSERDA consultants will evaluate the installation of ground source heat pumps (GSHP), air source heat pumps (ASHP), and variable refrigerant flow systems (VRF).
- For each school building, a 4-5 page screening report will be provided that describes capital costs, annual energy consumption impacts, cost changes, investment payback period, and environmental outcomes.

> **Benefits**

- Screenings will help schools make intelligent, fact-based decisions on if, how, and where to take next steps to pursue GSHP, ASHP, and VRF investments.
- Screenings will outline the benefits and potential savings of installing clean energy systems.

Green & Clean Energy Solutions: How to Apply

Submit a Completed Application Package to P12Schools@nyserda.ny.gov

- > Completed and signed Program Application
- > If enrolling in Energy Studies and/or Design:
 - Scope of Work
 - Project schedule
 - Itemized budget
- > If enrolling in Direct Incentives:
 - Prequalified Direct Incentives List
 - Indicate which Direct Incentives the applicant is applying for on the Program Application or the Direct Incentives List
 - Specification sheets showing manufacturer and model number
 - Proof of purchase
 - Custom
 - Include building description and description of existing related equipment
 - Specification sheets of new equipment to be installed
 - Proof of purchase

Green & Clean Energy Solutions: Next Steps

- Check out the Program Website: nyserderda.ny.gov/P-12-GCES
- Read the [Program Opportunity Notice](#)
- Email questions: P12Schools@nyserderda.ny.gov
- Apply!