

New Jersey's Clean Energy Program

LGEA Exit Meeting for:
Mine Hill Board of Education

Smruti Srinivasan, TRC

November 7, 2017

Introductions

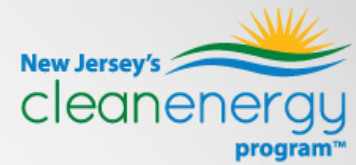
- *Mine Hill Board of Education*
 - Business Administrator: Carolina Rodriguez
- *NJ Clean Energy Program – TRC*
 - Auditor: Smruti Srinivasan
 - Case Manger: Ashley Miller

Agenda



- Overview of LGEA process (application to deliverable)
- Energy use & existing conditions
- Review of **E**nergy **C**onservation **M**easures (ECMs) identified
- Questions or concerns regarding the draft audit report
- Overview of NJCEP equipment incentives
- Next steps for Mine Hill Board of Education

Process to Draft Report



- Application submitted to NJCEP
- Site Visit Performed
- Utility Analysis
- Baseline Condition
- Analysis
- Recommendations
- Report

Overview of Systems, Baseline & Existing Conditions:

- Building Envelope
- Lighting System
- HVAC and Mechanical Systems
- On Site Generation - Photovoltaic

Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs

Canfield Avenue School



Energy Conservation Measure		Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			771	0.2	0.0	\$72.13	\$417.15	\$0.00	\$417.15	5.8	776
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	771	0.2	0.0	\$72.13	\$417.15	\$0.00	\$417.15	5.8	776
Lighting Control Measures			17,790	4.6	0.0	\$1,665.42	\$5,916.00	\$1,020.00	\$4,896.00	2.9	17,914
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	17,790	4.6	0.0	\$1,665.42	\$5,916.00	\$1,020.00	\$4,896.00	2.9	17,914
Electric Unitary HVAC Measures			7,039	4.2	0.0	\$658.93	\$43,629.58	\$2,088.00	\$41,541.58	63.0	7,088
	Install High Efficiency Electric AC	No	7,039	4.2	0.0	\$658.93	\$43,629.58	\$2,088.00	\$41,541.58	63.0	7,088
HVAC System Improvements			4,187	0.9	0.0	\$391.93	\$1,250.00	\$500.00	\$750.00	1.9	4,216
ECM 3	Install Dual Enthalpy Outside Economizer Control	Yes	4,187	0.9	0.0	\$391.93	\$1,250.00	\$500.00	\$750.00	1.9	4,216
Domestic Water Heating Upgrade			0	0.0	8.7	\$86.66	\$86.04	\$0.00	\$86.04	1.0	1,022
ECM 4	Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	8.7	\$86.66	\$86.04	\$0.00	\$86.04	1.0	1,022
Plug Load Equipment Control - Vending Machine			1,954	0.0	0.0	\$182.96	\$460.00	\$0.00	\$460.00	2.5	1,968
ECM 5	Vending Machine Control	Yes	1,954	0.0	0.0	\$182.96	\$460.00	\$0.00	\$460.00	2.5	1,968
TOTALS			31,740	10.0	8.7	\$3,058.04	\$51,758.77	\$3,608.00	\$48,150.77	15.7	32,984

* - All incentives presented in this table are based on NJ Smart Start Building equipment incentives and assume proposed equipment meets minimum performance criteria for that program.

** - Simple Payback Period is based on net measure costs (i.e. after incentives).

Some Energy Efficient Best Practices

- Perform Proper Lighting Maintenance
- Develop a Lighting Maintenance Schedule
- Practice Proper Use of Thermostat Schedules and Temperature Resets
- Water Conservation

PROGRAM PORTFOLIO



ELIGIBLE SECTORS

Commercial, Industrial, Government, Non-Profit,
Institutional and Multifamily

PROGRAMS

Equipment Rebates:

- Retrofit – Existing Buildings
- New Construction
- Direct Install – Small Business
- Large Energy Users

Whole Buildings:

- Pay for Performance Existing Buildings
- Pay for Performance New Construction

Energy Generation:

- Combined Heat and Power (CHP) and Fuel Cells

Recommended NJCEP Incentives



➤ Direct Install

Donnelly Energy

Karan Raina

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➤ Pay for Performance (P4P)

➤ SmartStart Buildings (i.e Retrofit – Existing Buildings)

Energy Savings Improvement Program (ESIP)



- Program administered directly by BPU
- Provides alternative financing for energy savings projects at public institutions.
- Value of energy savings leveraged to pay for cost of EE projects over a 15 year contract.
- Does not count as debt or require voter approval.
- Requires an audit as 1st step (LGEA satisfied requirement)

Direct Install – Financing Option

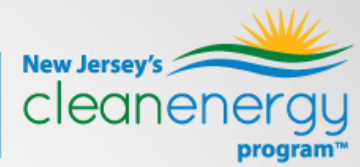


New Jersey Natural Gas

NJNG customers can finance up to 30 percent of the remaining balance at 0% APR through the **SAVEGREEN Project**® On-Bill Repayment Program (OBRP).



Questions



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FOR MORE INFORMATION

Visit NJCleanEnergy.com

Call (866) NJSMART

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