

# New Jersey's Clean Energy Program

## LGEA Exit Meeting for: Woodstown-Pilesgrove Regional Schools

TRC Energy Services

August 8, 2018

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## Introductions



- <u>Woodstown-Pilesgrove School District</u>
  - Virginia Grossman Superintendent
  - Rose Wang Chin Business Administrator
  - Joe Biluck Director of Facilities
- Schneider-Electric
  - Bryan McGair Account Executive
  - Sam Ringelburg Account Executive
- NJ Clean Energy Program
  - Brian DeLuca Program Manager
  - Moussa Traore Auditor
  - Elizabeth Ebinger Account Manager
  - Mike Thulen ESIP Coordinator





- The audit process overview
- Energy use & existing conditions
- Review of Energy Conservation Measures (ECMs) identified
- Questions or concerns regarding the draft audit report
- Overview of NJCEP equipment incentives
- Next steps for Woodstown-Pilesgrove Regional School District

## LGEA Process



Application Approval

**Scheduling Call** 

Audit

**Benchmarking & Analysis** 

Draft Report

**Exit Meeting Presentation** 

**Final Report** 

## Site Visit and Utility Analysis



#### **Overview of Systems, Baseline** & Existing Conditions:

- Building Envelope
- Lighting System
- HVAC and Mechanical Systems

#### **Utility Consumption:**

- Electric Consumption and Costs
- Natural Gas Consumption and Costs

#### Sites Visited/Analyzed

- William Roper EELC
- Mary Shoemaker Elementary School
- Woodstown Middle/High School
- Administration Building



## **All Opportunities**

Energy Conservation Measure	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 <sub>2</sub> e Emissions Reduction (Ibs)
Lighting Upgrades	267,246	61.0	0.0	\$43,315.60	\$191,474.21	\$29,400.00	\$162,074.21	3.7	269,115
Install LED Fixtures	36,639	7.5	0.0	\$7,743.30	\$50,932.91	\$6,110.00	\$44,822.91	5.8	36,896
Retrofit Fluorescent Fixtures with LED Lamps and Drivers	298	0.1	0.0	\$44.69	\$404.00	\$0.00	\$404.00	9.0	300
Retrofit Fixtures with LED Lamps	229,538	53.4	0.0	\$35,411.40	\$138,846.64	\$23,290.00	\$115,556.64	3.3	231,143
Install LED Exit Signs	771	0.1	0.0	\$116.21	\$1,290.66	\$0.00	\$1,290.66	11.1	776
Lighting Control Measures	47 ,899	10.1	0.0	\$7,211.69	\$75,610.00	\$6,890.00	\$68,720.00	9.5	48,234
Install Occupancy Sensor Lighting Controls	40,371	8.5	0.0	\$6,079.60	\$54,610.00	\$6,890.00	\$47,720.00	7.8	40,654
Install High/Low Lighitng Controls	7,528	1.6	0.0	\$1,132.09	\$21,000.00	\$0.00	\$21,000.00	18.5	7,580
Motor Upgrades	3,789	0.9	0.0	\$573.30	\$11,079.54	\$0.00	\$11,079.54	19.3	3,816
Premium EfficiencyMotors	3,789	0.9	0.0	\$573.30	\$11,079.54	\$0.00	\$11,079.54	19.3	3,816
Variable Frequency Drive (VFD) Measures	24,000	2.5	0.0	\$3,630.97	\$6,334.30	\$0.00	\$6,334.30	1.7	24,168
Install VFDs on Hot Water Pumps	24,000	2.5	0.0	\$3,630.97	\$6,334.30	\$0.00	\$6,334.30	1.7	24,168
Electric Unitary HVAC Measures	4,272	2.5	0.0	\$646.26	\$26,516.69	\$1,642.00	\$24,874.69	38.5	4,302
Install High Efficiency Electric AC	4,272	2.5	0.0	\$646.26	\$26,516.69	\$1,642.00	\$24,874.69	38.5	4,302
Gas Heating (HVAC/Process) Replacement	0	0.0	18.1	\$263.90	\$7,045.20	\$1,000.00	\$6,045.20	22.9	2,968
Install High Efficiency Hot Water Boilers	0	0.0	18.1	\$263.90	\$7,045.20	\$1,000.00	\$6,045.20	22.9	2,968
Domestic Water Heating Upgrade	0	0.0	39.9	\$447.63	\$157.74	\$0.00	\$157.74	0.4	4,671
Install Low-Flow Domestic Hot Water Devices	0	0.0	39.9	\$447.63	\$157.74	\$0.00	\$157.74	0.4	4,671
Plug Load Equipment Control - Vending Machine	11,283	0.0	0.0	\$1,829.43	\$1,840.00	\$0.00	\$1,840.00	1.0	11,362
Vending Machine Control	11,283	0.0	0.0	\$1,829.43	\$1,840.00	\$0.00	\$1,840.00	1.0	11,362
TOTALS	358,490	77.0	58.0	\$57,918.78	\$320,057.68	\$38,932.00	\$281,125.68	4.9	368,635

\* - 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).



## **Cost Effective Opportunities\***

\*Opportunities considered cost effective have a payback period less than the expedited life of the measure

	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
	Lighting Upgrades	267,246	61.0	0.0	\$43,315.60	\$191,474.21	\$29,400.00	\$162,074.21	3.7	269,115
ECM 1	Install LED Fixtures	36,639	7.5	0.0	\$7,743.30	\$50,932.91	\$6,110.00	\$44,822.91	5.8	36,896
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	298	0.1	0.0	\$44.69	\$404.00	\$0.00	\$404.00	9.0	300
ECM 3	Retrofit Fixtures with LED Lamps	229,538	53.4	0.0	\$35,411.40	\$138,846.64	\$23,290.00	\$115,556.64	3.3	231,143
ECM 4	Install LED Exit Signs	771	0.1	0.0	\$116.21	\$1,290.66	\$0.00	\$1,290.66	11.1	776
	Lighting Control Measures	47,899	10.1	0.0	\$7,211.69	\$75,610.00	\$6,890.00	\$68,720.00	9.5	48,234
ECM 5	Install Occupancy Sensor Lighting Controls	40,371	8.5	0.0	\$6,079.60	\$54,610.00	\$6,890.00	\$47,720.00	7.8	40,654
ECM 6	Install High/Low Lighitng Controls	7,528	1.6	0.0	\$1,132.09	\$21,000.00	\$0.00	\$21,000.00	18.5	7,580
	Motor Upgrades	3,789	0.9	0.0	\$573.30	\$11,079.54	\$0.00	\$11,079.54	19.3	3,816
ECM 7	Premium Efficiency Motors	3,789	0.9	0.0	\$573.30	\$11,079.54	\$0.00	\$11,079.54	19.3	3,816
	Variable Frequency Drive (VFD) Measures	24,000	2.5	0.0	\$3,630.97	\$6,334.30	\$0.00	\$6,334.30	1.7	24,168
ECM 8	Install VFDs on Hot Water Pumps	24,000	2.5	0.0	\$3,630.97	\$6,334.30	\$0.00	\$6,334.30	1.7	24,168
	Domestic Water Heating Upgrade	0	0.0	39.9	\$447.63	\$157.74	\$0.00	\$157.74	0.4	4,671
ECM 9	Install Low-Flow Domestic Hot Water Devices	0	0.0	39.9	\$447.63	\$157.74	\$0.00	\$157.74	0.4	4,671
	Plug Load Equipment Control - Vending Machine	11,283	0.0	0.0	\$1,829.43	\$1,840.00	\$0.00	\$1,840.00	1.0	11,362
ECM 10	Vending Machine Control	11,283	0.0	0.0	\$1,829.43	\$1,840.00	\$0.00	\$1,840.00	1.0	11,362
	TOTALS	354,218	74.4	39.9	\$57,008.62	\$286,495.79	\$36,290.00	\$250,205.79	4.4	361,366

\* - 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).

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#### William Roper EELC



#### Benchmarking



#### Performance



Primary Property Type: K-12 School Gross Floor Area (ft\*): 16,856

William Roper Early Education Learning Center

For Year Ending: June 30, 2017 ENERGY STAR® Score<sup>1</sup>

Date Generated: May 02, 2018

Built: 2013

1, The ENERGY STAR score is a 1-100 assessment of a building's energy efficiency as compared with similar buildings nationwide, adjusting for climate and business activity

#### Property Address Property Owner William Roper Early Education Learning Woodstown-Pilesgrove Regional SD Primary Contact Rose Chin Center E Lake Road E Lake Road 211 E Lake Rd Woodstown, NJ 08098 Woodstown, NJ 08098 Pilesgrove, New Jersey 08098 856-769-0144 x22251 3 \_\_\_\_ chin.r@woodstown.org Property ID: 6264438 Energy Consumption and Energy Use Intensity (EUI) Site EUI 30.4 kBtu/ft<sup>2</sup> Annual Energy by Fuel Electric - Grid (kBtu) 511,912 (100%) National Median Comparison National Median Site EUI (kBtu/ft²) 47.7 National Median Source EUI (kBtu/ft²) 149.8 % Diff from National Median Source EUI -36% Source EUI Annual Emissions Greenhouse Gas Emissions (Metric Tons 57 95.4 kBtu/ft<sup>2</sup> CO2e/year) Signature & Stamp of Verifying Professional

(Name) verify that the above information is true and correct to the best of my knowledge.

Signature: Date:

Licensed Professional



(if applicable)

### William Roper EELC



	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)		Annual Fuel Savings (MMBtu)		Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
	Lighting Upgrades		36,629	8.9	0.0	\$8,494.62	\$48,393.47	\$5,505.00	\$42,888.47	5.0	36,885
ECM 1	Install LED Fixtures	Yes	26,806	3.7	0.0	\$6,216.57	\$34,373.70	\$2,800.00	\$31,573.70	5.1	26,993
ECM 2	Retrofit Fixtures with LED Lamps	Yes	9,823	5.1	0.0	\$2,278.06	\$14,019.78	\$2,705.00	\$11,314.78	5.0	9,892
	Plug Load Equipment Control - Vending Machine		1,612	0.0	0.0	\$373.80	\$230.00	\$0.00	\$230.00	0.6	1,623
ECM 3	Vending Machine Control	Yes	1,612	0.0	0.0	\$373.80	\$230.00	\$0.00	\$230.00	0.6	1,623
	TOTALS	• •	38,241	8.9	0.0	\$8,868.43	\$48,623.47	\$5,505.00	\$43,118.47	4.9	38,508

\* - 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).

#### Mary Shoemaker School



#### Benchmarking





#### Mary Shoemaker Elementary School

Primary Property Type: K-12 School Gross Floor Area (ft<sup>a</sup>): 59,071 Built: 1958

For Year Ending: June 30, 2017 Date Generated: May 02, 2018

ENERGY STAR®

1. The ENERGY STAR score is a 1-100 assessment of a building's energy efficiency as compared with similar buildings nationwide, adjusting for climate and business activity.

#### Property & Contact Information Property Address Property Owner **Primary Contact** Mary Shoemaker Elementary School Woodstown-Pilesgrove Regional SD Rose Chin 201 E Millbrooke Ave E Lake Road E Lake Road Woodstown, NJ 08098 Woodstown, NJ 08098 Woodstown, New Jersey 08098 856-769-0144 x22251 1 chin.r@woodstown.org Property ID: 6264439 Energy Consumption and Energy Use Intensity (FUI)

Site EUI	Annual Energy by Fu	iel	National Median Comparison	
48.5 kBtu/ft <sup>2</sup>	Natural Gas (kBtu)	1,441,025 (50%)	National Median Site EUI (kBtu/ft²)	69.6
40.5 KDIU/II-	Electric - Grid (kBtu)	1,426,034 (50%)	National Median Source EUI (kBtu/ft <sup>2</sup> )	145.4
			% Diff from National Median Source EUI	-30%
Source EUI			Annual Emissions	
101.4 kBtu/ft	2		Greenhouse Gas Emissions (Metric Tons CO2e/year)	235

#### Signature & Stamp of Verifying Professional

(Name) verify that the above information is true and correct to the best of my knowledge.

Signature: \_\_\_\_\_\_Date: \_\_\_\_\_\_ Licensed Professional \_\_\_\_\_\_\_\_ (\_\_\_\_)\_\_\_-\_\_\_\_



NJCleanEnergy.com

### Mary Shoemaker School

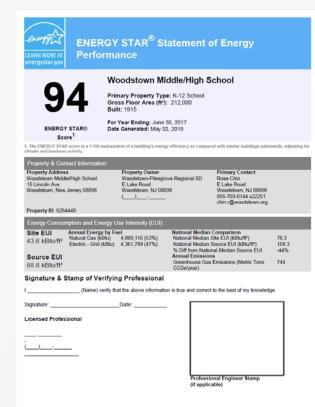


	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
	Lighting Upgrades		62,334	15.3	0.0	\$9,430.47	\$50,379.75	\$8,585.00	\$41,794.75	4.4	62,770
ECM 1	Install LED Fixtures	Yes	7,068	3.1	0.0	\$1,069.37	\$13,824.47	\$2,610.00	\$11,214.47	10.5	7,118
	Retrofit Fixtures with LED Lamps	Yes	54,845	12.2	0.0	\$8,297.48	\$35,694.84	\$5,975.00	\$29,719.84	3.6	55,229
ECM 3	Install LED Exit Signs	Yes	420	0.0	0.0	\$63.61	\$860.44	\$0.00	\$860.44	13.5	423
	Lighting Control Measures		11,633	2.5	0.0	\$1,760.00	\$14,550.00	\$1,805.00	\$12,745.00	7.2	11,715
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	9,936	2.2	0.0	\$1,503.19	\$13,350.00	\$1,805.00	\$11,545.00	7.7	10,005
ECM 5	Install High/Low Lighting Controls	Yes	1,697	0.4	0.0	\$256.81	\$1,200.00	\$0.00	\$1,200.00	4.7	1,709
	Motor Upgrades		3,789	0	0	\$573.30	\$11,079.54	\$0.00	\$11,079.54	19.3	3,816
ECM 6	Premium Efficiency Motors (for Heating Hot Water Pumps)	Yes	2,239	0.5	0.0	\$338.71	\$2,687.10	\$0.00	\$2,687.10	7.9	2,254
	Premium Efficiency Motors (for Univents)	No	1,551	0.4	0.0	\$234.59	\$8,392.44	\$0.00	\$8,392.44	35.8	1,561
	Variable Frequency Drive (VFD) Measures		24,000	2.5	0.0	\$3,630.97	\$6,334.30	\$0.00	\$6,334.30	1.7	24,168
ECM 7	Install VFDs on Hot Water Pumps	Yes	24,000	2.5	0.0	\$3,630.97	\$6,334.30	\$0.00	\$6,334.30	1.7	24,168
	Electric Unitary HVAC Measures		4,272	2.5	0.0	\$646.26	\$26,516.69	\$1,642.00	\$24,874.69	38.5	4,302
	Install High Efficiency Electric AC	No	4,272	2.5	0.0	\$646.26	\$26,516.69	\$1,642.00	\$24,874.69	38.5	4,302
	Plug Load Equipment Control - Vending Machine		3,224	0.0	0.0	\$487.71	\$690.00	\$0.00	\$690.00	1.4	3,246
ECM 8	Vending Machine Control	Yes	3,224	0.0	0.0	\$487.71	\$690.00	\$0.00	\$690.00	1.4	3,246
	TOTAL FOR ALL RECOMMENDED MEASURES		103,430	20.8	0.0	\$15,647.85	\$74,641.15	\$10,390.00	\$64,251.15	4.1	104,154
	TOTALS FOR ALL EVALUATED MEASURES		109,253	23.3	0.0	\$16,528.71	\$109,550.28	\$12,032.00	\$97,518.28	5.9	110,017
	entives presented in this table are based on NJ Smart Start Building equipment inc	centives and assun	ne proposed e	quipment m	eets minim	um performance	e criteria for that	program.			
** - Simpl	e Payback Period is based on net measure costs (i.e. after incentives).	A. 1. 1. 1. 1.									

### Woodstown Middle/High School



### Benchmarking



### Woodstown Middle/High 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 <sub>2</sub> e Emissions Reduction (lbs)
	Lighting Upgrades		163,114	34.4	0.0	\$24,487.68	\$87,672.91	\$14,455.00	\$73,217.91	3.0	164,255
ECM1	Install LED Fixtures	Yes	1,043	0.3	0.0	\$156.60	\$1,172.03	\$300.00	\$872.03	5.6	1,050
ECM2	Retroft Fluore scent Fixtures with LED Lamps and Drivers	Yes	298	0.1	0.0	\$44.69	\$404.00	\$0.00	\$404.00	9.0	300
ECM3	Retroft Fixtures with LED Lamps	Yes	161,423	33.9	0.0	\$24,233.79	\$85,666.66	\$14,155.00	\$71,511.66	3.0	162,552
ECM4	Install LED Exit Signs	Yes	350	0.0	0.0	\$52.60	\$430.22	\$0.00	\$430.22	8.2	353
	Lighting Control Measures		35,971	7.4	0.0	\$5,400.16	\$59,862.00	\$4,890.00	\$54,972.00	10.2	36,222
ECM5	Install Occupancy Sensor Lighting Controls	Yes	30,141	6.2	0.0	\$4,524.89	\$40,062.00	\$4,890.00	\$35,172.00	7.8	30,351
ECM6	Install High/Low Lighting Controls	Yes	5,830	1.2	0.0	\$875.28	\$19,800.00	\$0.00	\$19,800.00	22.6	5,871
	Domestic Water Heating Upgrade		0	0.0	39.9	\$447.63	\$157.74	\$0.00	\$157.74	0.4	4,671
ECM7	Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	39.9	\$447.63	\$157.74	\$0.00	\$157.74	0.4	4,671
	Plug Load Equipment Control - Vending Machine		6,447	0.0	0.0	\$967.92	\$920.00	\$0.00	\$920.00	1.0	6,492
ECM8	Vending Machine Control	Yes	6,447	0.0	0.0	\$967.92	\$920.00	\$0.00	\$920.00	1.0	6,492
TOTALS FOR ALL EVALUATED MEASURES 205,532 41.8 39.9 \$31,303.40 \$148,612.65 \$19,345.00 \$129,267.65 4.1 211,640											
	ntives presented in this table are based on NJ Smart Start Building equipment inc e Payback Period is based on net measure costs (i.e. after incentives).	entives and assum	ne proposed e	quipment m	eets minim	um performance	e criteria for that	t program.			

### Administration Building



#### Benchmarking



ENERGY STAR<sup>®</sup> Statement of Energy Performance

#### Administration Building



Primary Property Type: Office Gross Floor Area (ft<sup>2</sup>): 2,784 Built: 1938

ENERGY STAR® For Year Ending: July 31, 2017 Date Generated: May 02, 2018

Score<sup>1</sup>

1. The ENERGY STAR score is a 1-100 assessment of a building's energy efficiency as compared with similar buildings nationwide, adjusting for climate and business activity.





#### Signature & Stamp of Verifying Professional

\_\_\_\_\_ (Name) verify that the above information is true and correct to the best of my knowledge.

Signature:	Date:	- [
Licensed Professional		
		Professional Engineer Stamp

(if applicable)

### Administration Building



Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	•	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
Lighting Upgrades		5,169	2.4	0.0	\$902.83	\$5,028.07	\$855.00	\$4,173.07	4.6	5,205
ECM 1 Install LED Fixtures	Yes	1,722	0.3	0.0	\$300.76	\$1,562.71	\$400.00	\$1,162.71	3.9	1,734
ECM 2 Retrofit Fixtures with LED Lamps	Yes	3,447	2.1	0.0	\$602.07	\$3,465.36	\$455.00	\$3,010.36	5.0	3,471
Lighting Control Measures		<b>29</b> 5	0.1	0.0	\$51.52	\$1,198.00	\$195.00	\$1,003.00	19.5	297
ECM 3 Install Occupancy Sensor Lighting Controls	Yes	295	0.1	0.0	\$51.52	\$1,198.00	\$195.00	\$1,003.00	19.5	297
Gas Heating (HVAC/Process) Replacement		0	0.0	18.1	\$263.90	\$7,045.20	\$1,000.00	\$6,045.20	22.9	2,968
Install High Efficiency Hot Water Boilers	No	0	0.0	18.1	\$263.90	\$7,045.20	\$1,000.00	\$6,045.20	22.9	2,968
TOTAL FOR ALL RECOMMENDED MEASURES		5,464	2.5	0.0	\$954.35	\$6,226.07	\$1,050.00	\$5,176.07	5.4	5,502
TOTALS FOR ALL EVALUATED MEASURES		5,464	2.5	18.1	\$1,218.25	\$13,271.27	\$2,050.00	\$11,221.27	9.2	8,470

\* - 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).

## **Energy Efficient Best Practices**

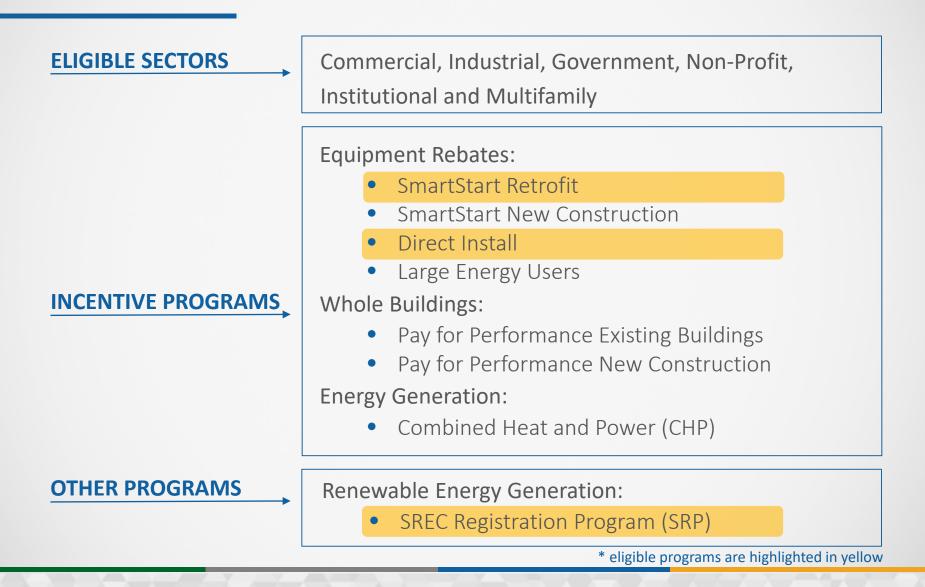


- Reduce Air Leakage
- Close Doors and Windows
- Develop a Lighting Maintenance Schedule
- Ensure Lighting Controls Are Operating Properly
- Use Fans to Reduce Cooling Load
- Use Window Treatments/Coverings
- Clean and/or Replace HVAC filters
- Check and Seal Duct Leakage
- Perform Proper Boiler Maintenance
- Perform Proper Water Heater Maintenance
- Plug Load Controls
- Water Conservation

See individual reports for specific EE practices by building

## Clean Energy Program Portfolio





## SmartStart: Overview



• Two types of incentives for high efficiency equipment installation:

- Prescriptive
- Custom
- Project Categories:
  - New Construction
  - Renovation
  - Remodeling
  - Equipment Replacement
- Project pre-approval required for certain equipment
- Incentives up to \$500,000 per electric account & \$500,000 per natural gas account
- Specific incentives and individual applications for Lighting, HVAC, VFDs, Refrigeration, Controls and more!

#### Financing Options – SmartStart



- 0% Financing
- Up to \$100,000 for 5 years
- SJG can help guide you through the process

Contact: Bruce Grossman – Program Manager South Jersey Gas #1 South Jersey Plaza Folsom, NJ 08037 Phone: 609-561-9000, ext. 4271





## **Direct Install: Overview**



- Turn-key retrofit program to replace outdated and inefficient equipment, including lighting, HVAC, refrigeration, etc.
- Open to Small to Mid-Sized Commercial and Industrial facilities with an average electric demand ≤ 200 kW
- Provides incentives of up to 70% of the installed cost
- Incentives are paid directly to the contractor
  - Customer only pays remaining 30% of installed cost
  - \$125,000 project/building cap
  - \$250,000 per entity cap (up to \$500,000 if using ESIP)
- Participating contractors provide support and process all paperwork
- Fast turnaround time: Average length of time for job completion (4-6 months)

## **Direct Install:**



## **Participating Contractor**

Tri-State Light & Energy, Inc. Alan Rhode or Greg Shields 610-789-1900 asr@tsle.com





The State of NJ pays:

- 70% of all qualified upgrades
- Up to \$125,000

South Jersey Gas will finance:

- Remaining 30%
- 0% financing
- For 3 years
- Up to \$53,571





#### Recommended NJCEP Incentives per Building



Entity Name	SmartStart	Direct Install	SREC Registration Program (SRP) for potential Solar Projects*
William Roper EELC	Х	Х	
Mary Shoemaker Elementary	Х	Х	Х
Woodstown Middle/HS	Х	X**	Х
Administration Building	Х	Х	

\* These sites have a *high potential* for the implementation of a PV system. The SREC registration program is provided to register produced SRECs and is not an incentive or rebate program.

\*\* Site is eligible as of July 1, 2018 for Direct Install due to FY 19 updates. Draft Report does not indicate this eligibility because delivered prior in FY18.

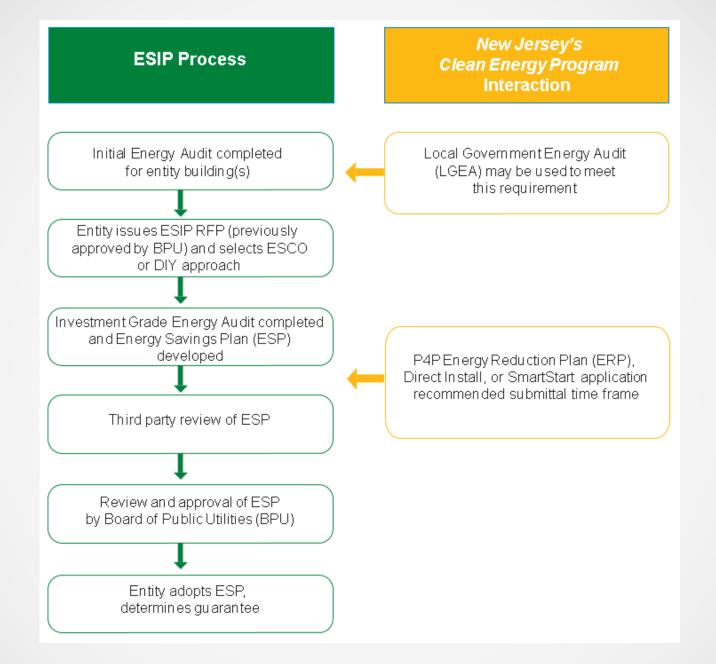
The sites below require a waiver to be in Direct Install because only lighting upgrades have been identified. They are eligible for a full free assessment with the DI Participating Contractor to submit the waiver or to identify other measure/s to enable participation.

• William Roper EELC, Woodstown Middle/HA, Administration Building



#### **Energy Savings Improvement Program (ESIP)**

- 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/require voter approval.
- Requires an audit as 1<sup>st</sup> step (LGEA satisfies requirement)
- ESIP participation question on LGEA application
- Program administered directly by BPU





## FOR MORE INFORMATION

## **ESIP**

Mike Thulen ESIP Coordinator Office: 609-777-3338 Cell: 732-330-2419 ESIP@bpu.nj.gov

## Questions



NJCleanEnergy.com



## FOR MORE INFORMATION

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