

# New Jersey's Clean Energy Program

LGEA Exit Meeting for:  
*Linwood City School District*

TRC Energy Services

February 14, 2019

# Introductions

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## *Linwood City School District*

- Teri Weeks – Business Administrator
- Patrick Childs – Director of Facilities

## *NJ Clean Energy Program*

- Brian DeLuca, CEM – TRC Program Manager
- Robert Grindrod – TRC Auditor
- Elizabeth Ebinger – TRC Account Manager
- Gary Finger – TRC Outreach Manager
- Mike Thulen – ESIP Coordinator

# Agenda

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- The audit process overview
- Energy use & existing conditions
- Review of **E**nergy **C**onservation **M**asures (ECMs) identified
- Questions or concerns regarding the draft audit report
- Overview of NJCEP equipment incentives
- Next steps for Linwood City School District

# LGEA Process

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- 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
- Plug Load Equipment

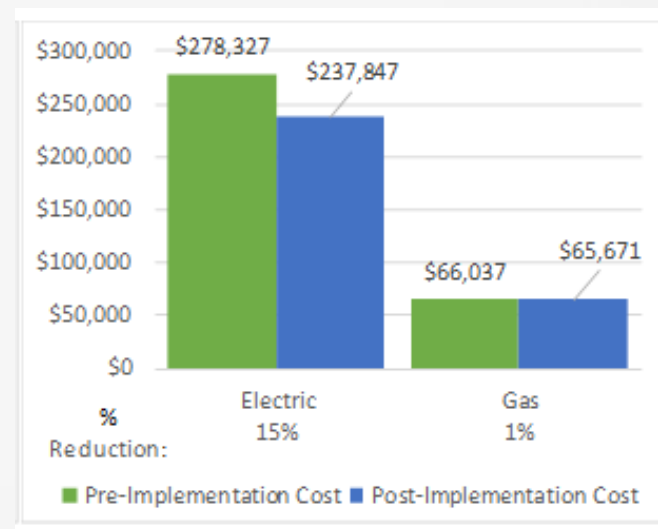
## Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs

## Sites Visited/Analyzed

- Belhaven Middle School
- Seaview Elementary School

### Utility Cost Savings



# Benchmarking



## Belhaven Middle School

**ENERGY STAR® Statement of Energy Performance**

**39**  
 ENERGY STAR® Score<sup>1</sup>

**Belhaven Middle School**  
**Primary Property Type:** K-12 School  
**Gross Floor Area (ft²):** 109,278  
**Built:** 1995  
**For Year Ending:** December 31, 2017  
**Date Generated:** November 12, 2018

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		
<b>Property Address</b> Belhaven Middle School 51 Belhaven Ave Linwood, New Jersey 08221	<b>Property Owner</b> Linwood City School District 51 Belhaven Ave Linwood, NJ 08221 ( ) -	<b>Primary Contact</b> Teri Weeks 51 Belhaven Ave Linwood, NJ 08221 609-926-6700 teriweeks@linwoodschools.org

Property ID: 6582901

Energy Consumption and Energy Use Intensity (EUI)			
<b>Site EUI</b> 69.5 kBtu/ft²	<b>Annual Energy by Fuel</b>		
	Natural Gas (kBtu) 3,490,198 (46%) Electric - Grid (kBtu) 4,103,247 (54%)		
<b>Source EUI</b> 138.7 kBtu/ft²	<b>National Median Comparison</b>		
	National Median Site EUI (kBtu/ft²)		62.4
	National Median Source EUI (kBtu/ft²)		124.4
	% Diff from National Median Source EUI		11%
	<b>Annual Emissions</b>		
	Greenhouse Gas Emissions (Metric Tons CO2e/year)		601

**Signature & Stamp of Verifying Professional**

I \_\_\_\_\_ (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)

Building Name	ENERGY STAR Score
Belhaven Middle School	39
Seaview Elementary School	45

ENERGY STAR Scores are percentile ranking from 1 (least efficient) to 100 (most efficient). It compares your building's energy performance to similar buildings nationwide.

# 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 (lbs)
<b>Lighting Upgrades</b>	<b>250,907</b>	<b>65.0</b>	<b>0.0</b>	<b>\$33,777.93</b>	<b>\$206,884.08</b>	<b>\$38,545.00</b>	<b>\$168,339.08</b>	<b>5.0</b>	<b>252,661</b>
Install LED Fixtures	45,851	9.1	0.0	\$6,172.35	\$74,243.56	\$15,850.00	\$58,393.56	9.5	46,171
Retrofit Fluorescent Fixtures with LED Lamps and Drivers	64,964	22.0	0.0	\$8,751.92	\$54,009.45	\$5,525.00	\$48,484.45	5.5	65,418
Retrofit Fixtures with LED Lamps	139,821	33.9	0.0	\$18,817.12	\$76,386.19	\$17,170.00	\$59,216.19	3.1	140,799
Install LED Exit Signs	272	0.0	0.0	\$36.54	\$2,244.88	\$0.00	\$2,244.88	61.4	273
<b>Lighting Control Measures</b>	<b>38,549</b>	<b>9.7</b>	<b>0.0</b>	<b>\$5,189.16</b>	<b>\$27,824.00</b>	<b>\$3,350.00</b>	<b>\$24,474.00</b>	<b>4.7</b>	<b>38,819</b>
Install Occupancy Sensor Lighting Controls	38,549	9.7	0.0	\$5,189.16	\$27,824.00	\$3,350.00	\$24,474.00	4.7	38,819
<b>Motor Upgrades</b>	<b>3,880</b>	<b>1.1</b>	<b>0.0</b>	<b>\$522.46</b>	<b>\$12,486.90</b>	<b>\$0.00</b>	<b>\$12,486.90</b>	<b>23.9</b>	<b>3,907</b>
Premium Efficiency Motors	3,880	1.1	0.0	\$522.46	\$12,486.90	\$0.00	\$12,486.90	23.9	3,907
<b>Electric Unitary HVAC Measures</b>	<b>23,675</b>	<b>13.2</b>	<b>0.0</b>	<b>\$3,189.24</b>	<b>\$132,301.36</b>	<b>\$5,437.50</b>	<b>\$126,863.86</b>	<b>39.8</b>	<b>23,841</b>
Install High Efficiency Electric AC	22,209	13.1	0.0	\$2,991.73	\$125,494.48	\$5,161.50	\$120,332.98	40.2	22,364
Install High Efficiency Heat Pumps	1,466	0.1	0.0	\$197.51	\$6,806.88	\$276.00	\$6,530.88	33.1	1,476
<b>Gas Heating (HVAC/Process) Replacement</b>	<b>0</b>	<b>0.0</b>	<b>7.2</b>	<b>\$83.16</b>	<b>\$9,095.79</b>	<b>\$1,600.00</b>	<b>\$7,495.79</b>	<b>90.1</b>	<b>848</b>
Install High Efficiency Furnaces	0	0.0	7.2	\$83.16	\$9,095.79	\$1,600.00	\$7,495.79	90.1	848
<b>HVAC System Improvements</b>	<b>6,447</b>	<b>0.0</b>	<b>0.0</b>	<b>\$868.50</b>	<b>\$5,437.68</b>	<b>\$0.00</b>	<b>\$5,437.68</b>	<b>6.3</b>	<b>6,492</b>
Implement Demand Control Ventilation	6,447	0.0	0.0	\$868.50	\$5,437.68	\$0.00	\$5,437.68	6.3	6,492
<b>Domestic Water Heating Upgrade</b>	<b>0</b>	<b>0.0</b>	<b>31.9</b>	<b>\$366.03</b>	<b>\$243.78</b>	<b>\$0.00</b>	<b>\$243.78</b>	<b>0.7</b>	<b>3,731</b>
Install Low-Flow Domestic Hot Water Devices	0	0.0	31.9	\$366.03	\$243.78	\$0.00	\$243.78	0.7	3,731
<b>Food Service Equipment &amp; Refrigeration Measures</b>	<b>824</b>	<b>0.1</b>	<b>0.0</b>	<b>\$111.08</b>	<b>\$909.90</b>	<b>\$0.00</b>	<b>\$909.90</b>	<b>8.2</b>	<b>830</b>
Refrigerator/Freezer Case Electrically Commutated Motors	824	0.1	0.0	\$111.08	\$909.90	\$0.00	\$909.90	8.2	830
<b>Plug Load Equipment Control - Vending Machine</b>	<b>3,909</b>	<b>0.0</b>	<b>0.0</b>	<b>\$526.23</b>	<b>\$920.00</b>	<b>\$0.00</b>	<b>\$920.00</b>	<b>1.7</b>	<b>3,936</b>
Vending Machine Control	3,909	0.0	0.0	\$526.23	\$920.00	\$0.00	\$920.00	1.7	3,936
<b>TOTALS</b>	<b>328,191</b>	<b>89.1</b>	<b>39.1</b>	<b>\$44,633.79</b>	<b>\$396,103.49</b>	<b>\$48,932.50</b>	<b>\$347,170.99</b>	<b>7.8</b>	<b>335,064</b>

\* - 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 2/3rds of the useful 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 (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>		<b>250,907</b>	<b>65.0</b>	<b>0.0</b>	<b>\$33,777.93</b>	<b>\$206,884.08</b>	<b>\$38,545.00</b>	<b>\$168,339.08</b>	<b>5.0</b>	<b>252,661</b>
ECM 1	Install LED Fixtures	45,851	9.1	0.0	\$6,172.35	\$74,243.56	\$15,850.00	\$58,393.56	9.5	46,171
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	64,964	22.0	0.0	\$8,751.92	\$54,009.45	\$5,525.00	\$48,484.45	5.5	65,418
ECM 3	Retrofit Fixtures with LED Lamps	139,821	33.9	0.0	\$18,817.12	\$76,386.19	\$17,170.00	\$59,216.19	3.1	140,799
<b>Lighting Control Measures</b>		<b>38,549</b>	<b>9.7</b>	<b>0.0</b>	<b>\$5,189.16</b>	<b>\$27,824.00</b>	<b>\$3,350.00</b>	<b>\$24,474.00</b>	<b>4.7</b>	<b>38,819</b>
ECM 4	Install Occupancy Sensor Lighting Controls	38,549	9.7	0.0	\$5,189.16	\$27,824.00	\$3,350.00	\$24,474.00	4.7	38,819
<b>HVAC System Improvements</b>		<b>6,447</b>	<b>0.0</b>	<b>0.0</b>	<b>\$868.50</b>	<b>\$5,437.68</b>	<b>\$0.00</b>	<b>\$5,437.68</b>	<b>6.3</b>	<b>6,492</b>
ECM 5	Implement Demand Control Ventilation	6,447	0.0	0.0	\$868.50	\$5,437.68	\$0.00	\$5,437.68	6.3	6,492
<b>Domestic Water Heating Upgrade</b>		<b>0</b>	<b>0.0</b>	<b>31.9</b>	<b>\$366.03</b>	<b>\$243.78</b>	<b>\$0.00</b>	<b>\$243.78</b>	<b>0.7</b>	<b>3,731</b>
ECM 6	Install Low-Flow Domestic Hot Water Devices	0	0.0	31.9	\$366.03	\$243.78	\$0.00	\$243.78	0.7	3,731
<b>Food Service Equipment &amp; Refrigeration Measures</b>		<b>824</b>	<b>0.1</b>	<b>0.0</b>	<b>\$111.08</b>	<b>\$909.90</b>	<b>\$0.00</b>	<b>\$909.90</b>	<b>8.2</b>	<b>830</b>
ECM 7	Refrigerator/Freezer Case Electrically Commutated Motors	824	0.1	0.0	\$111.08	\$909.90	\$0.00	\$909.90	8.2	830
<b>Plug Load Equipment Control - Vending Machine</b>		<b>3,909</b>	<b>0.0</b>	<b>0.0</b>	<b>\$526.23</b>	<b>\$920.00</b>	<b>\$0.00</b>	<b>\$920.00</b>	<b>1.7</b>	<b>3,936</b>
ECM 8	Vending Machine Control	3,909	0.0	0.0	\$526.23	\$920.00	\$0.00	\$920.00	1.7	3,936
<b>TOTALS</b>		<b>300,636</b>	<b>74.8</b>	<b>31.9</b>	<b>\$40,838.93</b>	<b>\$242,219.44</b>	<b>\$41,895.00</b>	<b>\$200,324.44</b>	<b>4.9</b>	<b>306,469</b>

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



# Belhaven Middle 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)
<b>Lighting Upgrades</b>			<b>115,737</b>	<b>38.1</b>	<b>0.0</b>	<b>\$15,592.09</b>	<b>\$126,987.28</b>	<b>\$22,155.00</b>	<b>\$104,832.28</b>	<b>6.7</b>	<b>116,546</b>
ECM 1	Install LED Fixtures	Yes	20,037	4.8	0.0	\$2,699.32	\$49,210.00	\$10,900.00	\$38,310.00	14.2	20,177
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	64,964	22.0	0.0	\$8,751.92	\$54,009.45	\$5,525.00	\$48,484.45	5.5	65,418
ECM 3	Retrofit Fixtures with LED Lamps	Yes	30,737	11.3	0.0	\$4,140.85	\$23,767.84	\$5,730.00	\$18,037.84	4.4	30,952
<b>Lighting Control Measures</b>			<b>15,230</b>	<b>4.9</b>	<b>0.0</b>	<b>\$2,051.81</b>	<b>\$19,788.00</b>	<b>\$2,180.00</b>	<b>\$17,608.00</b>	<b>8.6</b>	<b>15,337</b>
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	15,230	4.9	0.0	\$2,051.81	\$19,788.00	\$2,180.00	\$17,608.00	8.6	15,337
<b>Motor Upgrades</b>			<b>2,560</b>	<b>0.6</b>	<b>0.0</b>	<b>\$344.90</b>	<b>\$9,081.66</b>	<b>\$0.00</b>	<b>\$9,081.66</b>	<b>26.3</b>	<b>2,578</b>
	Premium Efficiency Motors	No	2,560	0.6	0.0	\$344.90	\$9,081.66	\$0.00	\$9,081.66	26.3	2,578
<b>Electric Unitary HVAC Measures</b>			<b>22,063</b>	<b>12.3</b>	<b>0.0</b>	<b>\$2,972.27</b>	<b>\$122,579.25</b>	<b>\$4,999.50</b>	<b>\$117,579.75</b>	<b>39.6</b>	<b>22,217</b>
	Install High Efficiency Electric AC	No	20,597	12.2	0.0	\$2,774.76	\$115,772.37	\$4,723.50	\$111,048.87	40.0	20,741
	Install High Efficiency Heat Pumps	No	1,466	0.1	0.0	\$197.51	\$6,806.88	\$276.00	\$6,530.88	33.1	1,476
<b>Gas Heating (HVAC/Process) Replacement</b>			<b>0</b>	<b>0.0</b>	<b>7.2</b>	<b>\$83.16</b>	<b>\$9,095.79</b>	<b>\$1,600.00</b>	<b>\$7,495.79</b>	<b>90.1</b>	<b>848</b>
	Install High Efficiency Furnaces	No	0	0.0	7.2	\$83.16	\$9,095.79	\$1,600.00	\$7,495.79	90.1	848
<b>HVAC System Improvements</b>			<b>6,447</b>	<b>0.0</b>	<b>0.0</b>	<b>\$868.50</b>	<b>\$5,437.68</b>	<b>\$0.00</b>	<b>\$5,437.68</b>	<b>6.3</b>	<b>6,492</b>
ECM 5	Implement Demand Control Ventilation	Yes	6,447	0.0	0.0	\$868.50	\$5,437.68	\$0.00	\$5,437.68	6.3	6,492
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>31.9</b>	<b>\$366.03</b>	<b>\$243.78</b>	<b>\$0.00</b>	<b>\$243.78</b>	<b>0.7</b>	<b>3,731</b>
ECM 6	Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	31.9	\$366.03	\$243.78	\$0.00	\$243.78	0.7	3,731
<b>Food Service Equipment &amp; Refrigeration Measures</b>			<b>824</b>	<b>0.1</b>	<b>0.0</b>	<b>\$111.08</b>	<b>\$909.90</b>	<b>\$0.00</b>	<b>\$909.90</b>	<b>8.2</b>	<b>830</b>
ECM 7	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	824	0.1	0.0	\$111.08	\$909.90	\$0.00	\$909.90	8.2	830
<b>Plug Load Equipment Control - Vending Machine</b>			<b>1,954</b>	<b>0.0</b>	<b>0.0</b>	<b>\$263.29</b>	<b>\$460.00</b>	<b>\$0.00</b>	<b>\$460.00</b>	<b>1.7</b>	<b>1,968</b>
ECM 8	Vending Machine Control	Yes	1,954	0.0	0.0	\$263.29	\$460.00	\$0.00	\$460.00	1.7	1,968
<b>TOTALS FOR HIGH PRIORITY MEASURES</b>			<b>140,193</b>	<b>43.1</b>	<b>31.9</b>	<b>\$19,252.80</b>	<b>\$153,826.64</b>	<b>\$24,335.00</b>	<b>\$129,491.64</b>	<b>6.7</b>	<b>144,904</b>
<b>TOTALS FOR ALL EVALUATED MEASURES</b>			<b>164,816</b>	<b>56.0</b>	<b>39.1</b>	<b>\$22,653.13</b>	<b>\$294,583.34</b>	<b>\$30,934.50</b>	<b>\$263,648.84</b>	<b>11.6</b>	<b>170,546</b>

\* - 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).

# Seaview Elementary 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)
<b>Lighting Upgrades</b>			<b>135,170</b>	<b>27.0</b>	<b>0.0</b>	<b>\$18,185.83</b>	<b>\$79,896.79</b>	<b>\$16,390.00</b>	<b>\$63,506.79</b>	<b>3.5</b>	<b>136,115</b>
ECM 1	Install LED Fixtures	Yes	25,814	4.3	0.0	\$3,473.03	\$25,033.56	\$4,950.00	\$20,083.56	5.8	25,994
ECM 2	Retrofit Fixtures with LED Lamps	Yes	109,084	22.7	0.0	\$14,676.27	\$52,618.35	\$11,440.00	\$41,178.35	2.8	109,847
	Install LED Exit Signs	No	272	0.0	0.0	\$36.54	\$2,244.88	\$0.00	\$2,244.88	61.4	273
<b>Lighting Control Measures</b>			<b>23,319</b>	<b>4.7</b>	<b>0.0</b>	<b>\$3,137.35</b>	<b>\$8,036.00</b>	<b>\$1,170.00</b>	<b>\$6,866.00</b>	<b>2.2</b>	<b>23,482</b>
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	23,319	4.7	0.0	\$3,137.35	\$8,036.00	\$1,170.00	\$6,866.00	2.2	23,482
<b>Motor Upgrades</b>			<b>1,320</b>	<b>0.5</b>	<b>0.0</b>	<b>\$177.56</b>	<b>\$3,405.24</b>	<b>\$0.00</b>	<b>\$3,405.24</b>	<b>19.2</b>	<b>1,329</b>
	Premium Efficiency Motors	No	1,320	0.5	0.0	\$177.56	\$3,405.24	\$0.00	\$3,405.24	19.2	1,329
<b>Electric Unitary HVAC Measures</b>			<b>1,613</b>	<b>0.9</b>	<b>0.0</b>	<b>\$216.97</b>	<b>\$9,722.11</b>	<b>\$438.00</b>	<b>\$9,284.11</b>	<b>42.8</b>	<b>1,624</b>
	Install High Efficiency Electric AC	No	1,613	0.9	0.0	\$216.97	\$9,722.11	\$438.00	\$9,284.11	42.8	1,624
<b>Plug Load Equipment Control - Vending Machine</b>			<b>1,954</b>	<b>0.0</b>	<b>0.0</b>	<b>\$262.94</b>	<b>\$460.00</b>	<b>\$0.00</b>	<b>\$460.00</b>	<b>1.7</b>	<b>1,968</b>
ECM 4	Vending Machine Control	Yes	1,954	0.0	0.0	\$262.94	\$460.00	\$0.00	\$460.00	1.7	1,968
<b>TOTALS FOR HIGH PRIORITY MEASURES</b>			<b>160,172</b>	<b>31.7</b>	<b>0.0</b>	<b>\$21,549.58</b>	<b>\$86,147.91</b>	<b>\$17,560.00</b>	<b>\$68,587.91</b>	<b>3.2</b>	<b>161,292</b>
<b>TOTALS FOR ALL EVALUATED MEASURES</b>			<b>163,376</b>	<b>33.1</b>	<b>0.0</b>	<b>\$21,980.65</b>	<b>\$101,520.14</b>	<b>\$17,998.00</b>	<b>\$83,522.14</b>	<b>3.8</b>	<b>164,518</b>

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# Solar Energy Generation Potential



	Belhaven Middle School	Seaview Elementary School
<i>Potential:</i>	<b>HIGH</b>	<b>HIGH</b>
<i>System Potential: (kW)</i>	200	200
<i>Electric Generation: (kWh per year)</i>	238,274	150,489
<i>Displaced Cost: (per year)</i>	\$20,730	\$13,090

For more information on the SREC Registration Program (SRP) please visit:

<http://www.njcleanenergy.com/renewable-energy/programs/solar-renewable-energy-certificates-srec/new-jersey-solar-renewable-energy>

# Energy Efficient Best Practices

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- 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 Boiler Maintenance
- Perform Water Heater Maintenance
- Plug Load Controls
- Water Conservation

*See individual reports for specific EE practices by building*

# Clean Energy Program Portfolio



## ELIGIBLE SECTORS

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

## INCENTIVE PROGRAMS

### Equipment Rebates:

- SmartStart
- CTEEP  
(Customer Tailored Energy Efficiency Pilot)
- Direct Install
- Large Energy Users

### Whole Buildings:

- Pay for Performance

### Energy Generation:

- Combined Heat and Power (CHP)

## OTHER PROGRAMS

### Renewable Energy Generation:

- SREC Registration Program (SRP)

\* eligible programs are highlighted in yellow

# Recommended NJCEP Incentives per Building



<i><b>Linwood City School District</b></i>	<b>SmartStart</b>	<b>CTEEP</b>
Belhaven Middle School	X	X
Seaview Elementary School	X	X

# SmartStart: Overview

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- Two types of incentives for high efficiency equipment installation:
  - Prescriptive
  - Custom
- Project Categories:
  - New Construction
  - Renovation
  - Remodeling
  - Equipment Replacement
- Project pre-approval required for lighting and custom measures
- 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!

[www.NJCleanEnergy/SSB](http://www.NJCleanEnergy/SSB)

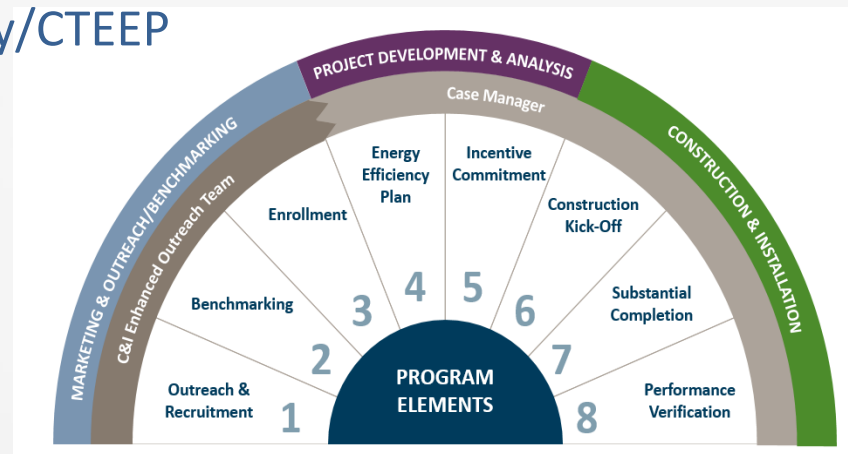
# CTEEP: Overview



## Customer Tailored Energy Efficiency Pilot (CTEEP)

- Provide customers with **on-site assistance** to discuss project opportunities and program incentives.
- A **single application** submission streamlines multiple prescriptive and custom measures.
- Provide **technical assistance incentives** to help offset soft costs associated with developing and planning an energy efficiency project.
- Incentives up to \$250,000 entity cap.

[www.NJCleanEnergy/CTEEP](http://www.NJCleanEnergy/CTEEP)





# SmartStart, CTEEP & P4P:



## Financing Option

- 0% Financing
- Up to \$130,000 for 10 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



# Recommended NJCEP Incentives per Building



<i>Linwood City School District</i>	SmartStart	CTEEP
Belhaven Middle School	X	X
Seaview Elementary School	X	X

## 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

## ESIP Process

## New Jersey's Clean Energy Program Interaction

Initial Energy Audit completed  
for entity building(s)

Local Government Energy Audit  
(LGEA) may be used to meet  
this requirement

Entity issues ESIP RFP (previously  
approved by BPU) and selects ESCO  
or DIY approach

Investment Grade Energy Audit completed  
and Energy Savings Plan (ESP)  
developed

P4P Energy Reduction Plan (ERP),  
Direct Install, or SmartStart application  
recommended submittal time frame

Third party review of ESP

Review and approval of ESP  
by Board of Public Utilities (BPU)

Entity adopts ESP,  
determines guarantee

# FOR MORE INFORMATION

## ESIP

**Mike Thulen**

ESIP Coordinator

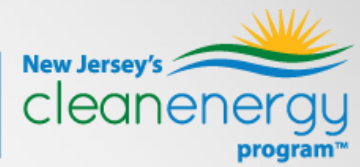
Office: 609-777-3338

Cell: 732-330-2419

ESIP@bpu.nj.gov

# Questions

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## FOR MORE INFORMATION

**Visit** [NJCleanEnergy.com](http://NJCleanEnergy.com)

**Call** (866) NJSMART

**Gary Finger**

Regional Outreach Manager

856.780.8553

[gfinger@trcsolutions.com](mailto:gfinger@trcsolutions.com)