

New Jersey's Clean Energy Program

LGEA Exit Meeting for: *Township of Ocean*

Aimee Lalonde, TRC

July 30, 2018

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Introductions



- <u>Township of Ocean</u>
 - Dan Collamer Mayor
 - Diane B. Ambrosio Administrator
 - Nicole Clune Assistant to Administrator
 - Matt Ambrosio Superintendent of Public Works
- NJ Clean Energy Program
 - Brian DeLuca Program Manager
 - Aimee Lalonde 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 the Township of Ocean

Process





Site Visit and Utility Analysis



Overview of Systems, Baseline & Existing Conditions:

- Building Envelope
- Lighting System
- HVAC and Mechanical Systems
- Plug Loads

Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs

Sites Visited/Analyzed

- Community Center
- Municipal Complex
- Construction & Zoning Building
- Public Works

Overview (All Buildings)



Existing Annual Energy Costs



Note: Higher proposed gas costs due to the recommendation of installing a high efficiency tank-less domestic water heater. This measure includes a switch from electric to natural gas which is cheaper to operate.

Overall Savings Potential



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 ₂ e Emissions Reduction (lbs)
Lighting Upgrades	75,652	17.4	0.0	\$10,967.74	\$77,665.28	\$6,450.00	\$71,215.28	6.5	76,181
Install LED Fixtures	25,873	4.7	0.0	\$3,695.09	\$42,545.63	\$3,005.00	\$39,540.63	10.7	26,054
Retrofit Fluorescent Fixtures with LED Lamps and Drivers	5,728	2.9	0.0	\$848.91	\$9,706.33	\$120.00	\$9,586.33	11.3	5,768
Retrofit Fixtures with LED Lamps	44,051	9.7	0.0	\$6,423.74	\$25,413.32	\$3,325.00	\$22,088.32	3.4	44,359
Lighting Control Measures	11,327	2.6	0.0	\$1,642.97	\$11,660.00	\$1,060.00	\$10,600.00	6.5	11,406
Install Occupancy Sensor Lighting Controls	11,270	2.6	0.0	\$1,632.91	\$11,620.00	\$1,060.00	\$10,560.00	6.5	11,349
Install Daylight Dimming Controls	57	0.0	0.0	\$10.06	\$40.00	\$0.00	\$40.00	4.0	58
Variable Frequency Drive (VFD) Measures	2,348	0.7	0.0	\$325.34	\$7,993.77	\$400.00	\$7,593.77	23.3	2,365
Install VFDs on Constant Volume (CV) HVAC	2,348	0.7	0.0	\$325.34	\$7,993.77	\$400.00	\$7,593.77	23.3	2,365
Electric Unitary HVAC Measures	17,168	15.9	0.0	\$2,567.74	\$69,383.64	\$4,705.50	\$64,678.14	25.2	17,288
Install High Efficiency Electric AC	17,168	15.9	0.0	\$2,567.74	\$69,383.64	\$4,705.50	\$64,678.14	25.2	17,288
HVAC System Improvements	2,127	0.0	12.3	\$434.73	\$1,358.63	\$0.00	\$1,358.63	3.1	3,587
Install Programmable Thermostats	1,751	0.0	12.3	\$382.72	\$1,319.48	\$0.00	\$1,319.48	3.4	3,209
Install Pipe Insulation	375	0.0	0.0	\$52.01	\$39.15	\$0.00	\$39.15	0.8	378
Domestic Water Heating Upgrade	27,741	0.9	-88.3	\$3,364.09	\$7,237.18	\$600.00	\$6,637.18	2.0	17,600
Install Tankless Water Heater	26,202	0.9	-89.4	\$3,095.30	\$7,136.80	\$600.00	\$6,536.80	2.1	15,917
Install Low-Flow Domestic Hot Water Devices	1,539	0.0	1.1	\$268.79	\$100.38	\$0.00	\$100.38	0.4	1,683
Custom Measures	66	0.0	13.3	\$136.72	\$1,000.00	\$0.00	\$1,000.00	7.3	1,624
Weatherstrip Exteiror Doors	38	0.0	3.6	\$42.74	\$150.00	\$0.00	\$150.00	3.5	457
Building Envelope Weatherization	28	0.0	9.7	\$93.98	\$850.00	\$0.00	\$850.00	9.0	1,167
TOTALS	136,428	37.5	-30.5	\$19,763.72	\$189,506.65	\$15,015.50	\$174,491.15	8.8	133,815

* - 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 (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
	Lighting Upgrades	75,163	16.0	0.0	\$10,881.66	\$73,157.28	\$6,410.00	\$66,747.28	6.1	75,689
ECM 1	Install LED Fixtures	25,873	4.7	0.0	\$3,695.09	\$42,545.63	\$3,005.00	\$39,540.63	10.7	26,054
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	5,239	1.6	0.0	\$762.83	\$5,198.33	\$80.00	\$5,118.33	6.7	5,275
ECM 3	Retrofit Fixtures with LED Lamps	44,051	9.7	0.0	\$6,423.74	\$25,413.32	\$3,325.00	\$22,088.32	3.4	44,359
	Lighting Control Measures	11,327	2.6	0.0	\$1,642.97	\$11,660.00	\$1,060.00	\$10,600.00	6.5	11,406
ECM 4	Install Occupancy Sensor Lighting Controls	11,270	2.6	0.0	\$1,632.91	\$11,620.00	\$1,060.00	\$10,560.00	6.5	11,349
ECM 5	Install Daylight Dimming Controls	57	0.0	0.0	\$10.06	\$40.00	\$0.00	\$40.00	4.0	58
	Electric Unitary HVAC Measures	1,370	2.2	0.0	\$241.20	\$4,787.90	\$736.00	\$4,051.90	16.8	1,380
ECM 6	Install High Efficiency Electric AC	1,370	2.2	0.0	\$241.20	\$4,787.90	\$736.00	\$4,051.90	16.8	1,380
	HVAC System Improvements	2,127	0.0	12.3	\$434.73	\$1,358.63	\$0.00	\$1,358.63	3.1	3,587
ECM 7	Install Programmable Thermostats	1,751	0.0	12.3	\$382.72	\$1,319.48	\$0.00	\$1,319.48	3.4	3,209
ECM 8	Install Pipe Insulation	375	0.0	0.0	\$52.01	\$39.15	\$0.00	\$39.15	0.8	378
	Domestic Water Heating Upgrade	27,741	0.9	-88.3	\$3,364.09	\$7,237.18	\$600.00	\$6,637.18	2.0	17,600
ECM 9	Install Tankless Water Heater	26,202	0.9	-89.4	\$3,095.30	\$7,136.80	\$600.00	\$6,536.80	2.1	15,917
ECM 10	Install Low-Flow Domestic Hot Water Devices	1,539	0.0	1.1	\$268.79	\$100.38	\$0.00	\$100.38	0.4	1,683
	Custom Measures	66	0.0	13.3	\$136.72	\$1,000.00	\$0.00	\$1,000.00	7.3	1,624
ECM 11	Weatherstrip Exteiror Doors	38	0.0	3.6	\$42.74	\$150.00	\$0.00	\$150.00	3.5	457
ECM 12	Building Envelope Weatherization	28	0.0	9.7	\$93.98	\$850.00	\$0.00	\$850.00	9.0	1,167
	TOTALS	117,794	21.8	-62.6	\$16,701.37	\$99,200.99	\$8,806.00	\$90,394.99	5.4	111,286

* - 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).

Existing Annual Energy Costs



Sit	e Summary			Existing Utility Costs					
Project Name	Square Footage Electric Utility G		Gas Utility	Annual Natural Gas Cost	Annual Electric Cost	Total Annual Energy Costs	Existing Cost Intensity (\$/sqft)		
Community Center	6,780	JCP&L	NJ Natural Gas	\$3,742	\$6,844	\$10,586	\$1.56		
Municipal Complex	11,841	JCP&L	NJ Natural Gas	\$2,523	\$25,802	\$28,325	\$2.39		
Construction & Zoning Building (new)	3,650	JCP&L	NJ Natural Gas	\$1,093	\$4,880	\$5,974	\$1.64		
Public Works	9,720	JCP&L	NJ Natural Gas	\$1,330	\$59,576	\$60,907	\$6.27		

Notes:

 The Municipal Complex has a police section which operates 24/7, which contributes to a higher cost intensity.
The two large well pump and motor operation is included on the main electric meter at the Public Works building. This artificially inflates the existing cost intensity. These well pump motors contribute to 84% of the total electrical usage of the Public Works building.



Community Center

Energy Conservation Measure	High Priority?	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		9,100	1.8	0.0	\$1,260.73	\$6,237.73	\$145.00	\$6,092.73	4.8	9,164
ECM 1 Install LED Fixtures	Yes	1,192	0.2	0.0	\$165.12	\$1,850.88	\$120.00	\$1,730.88	10.5	1,200
ECM 2 Retrofit Fixtures with LED Lamps	Yes	7,908	1.6	0.0	\$1,095.61	\$4,386.86	\$25.00	\$4,361.86	4.0	7,963
Lighting Control Measures		1,952	0.5	0.0	\$270.48	\$1,466.00	\$160.00	\$1,306.00	4.8	1,966
ECM 3 Install Occupancy Sensor Lighting Controls	Yes	1,952	0.5	0.0	\$270.48	\$1,466.00	\$160.00	\$1,306.00	4.8	1,966
Variable Frequency Drive (VFD) Measures		2,348	0.7	0.0	\$325.34	\$7,993.77	\$400.00	\$7,593.77	23.3	2,365
Install VFDs on Constant Volume (CV) HVAC	No	2,348	0.7	0.0	\$325.34	\$7,993.77	\$400.00	\$7,593.77	23.3	2,365
Electric Unitary HVAC Measures		3,351	8.4	0.0	\$464.29	\$27,348.60	\$1,715.50	\$25,633.10	55.2	3,375
Install High Efficiency Electric AC	No	3,351	8.4	0.0	\$464.29	\$27,348.60	\$1,715.50	\$25,633.10	55.2	3,375
Gas Heating (HVAC/Process) Replacement		0	0.0	22.0	\$230.90	\$10,081.44	\$1,000.00	\$9,081.44	39.3	2,578
Install High Efficiency Hot Water Boilers	No	0	0.0	22.0	\$230.90	\$10,081.44	\$1,000.00	\$9,081.44	39.3	2,578
HVAC System Improvements		1,745	0.0	4.9	\$292.81	\$698.89	\$0.00	\$698.89	2.4	2,327
ECM 4 Install Programmable Thermostats	Yes	1,370	0.0	4.9	\$240.81	\$659.74	\$0.00	\$659.74	2.7	1,949
ECM 5 Install Pipe Insulation	Yes	375	0.0	0.0	\$52.01	\$39.15	\$0.00	\$39.15	0.8	378
Domestic Water Heating Upgrade		337	0.0	0.0	\$46.64	\$35.85	\$0.00	\$35.85	0.8	339
ECM 6 Install Low-Flow Domestic Hot Water Devices	Yes	337	0.0	0.0	\$46.64	\$35.85	\$0.00	\$35.85	0.8	339
Custom Measures		38	0.0	3.6	\$42.74	\$150.00	\$0.00	\$150.00	3.5	457
ECM 7 Weatherstrip Exterior Doors	Yes	38	0.0	3.6	\$42.74	\$150.00	\$0.00	\$150.00	3.5	457
TOTAL HIGH PRIORITY MEAURESS		13,172	2.3	8.4	\$1,913.41	\$8,588.47	\$305.00	\$8,283.47	4.3	14,253
TOTAL EVALUATED MEAURESS		18,871	11.4	30.5	\$2,933.93	\$54,012.28	\$3,420.50	\$50,591.78	17.2	22,570

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

Municipal Complex



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 (Ibs)
Lighting Upgrades		37,828	6.4	0.0	\$5,660.02	\$33,881.87	\$1,275.00	\$32,606.87	5.8	38,092
ECM 1 Install LED Fixtures	Yes	10,728	1.6	0.0	\$1,605.23	\$22,394.57	\$120.00	\$22,274.57	13.9	10,803
ECM 2 Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	3,813	0.7	0.0	\$570.58	\$2,168.33	\$80.00	\$2,088.33	3.7	3,840
ECM 3 Retrofit Fixtures with LED Lamps	Yes	23,286	4.1	0.0	\$3,484.22	\$9,318.97	\$1,075.00	\$8,243.97	2.4	23,449
Lighting Control Measures		5,197	0.8	0.0	\$777.60	\$5,680.00	\$385.00	\$5,295.00	6.8	5,233
ECM 4 Install Occupancy Sensor Lighting Controls	Yes	5,197	0.8	0.0	\$777.60	\$5,600.00	\$385.00	\$5,215.00	6.7	5,233
Electric Unitary HVAC Measures		12,446	5.3	0.0	\$1,862.25	\$37,247.14	\$2,254.00	\$34,993.14	18.8	12,533
Install High Efficiency Electric AC	No	12,446	5.3	0.0	\$1,862.25	\$37,247.14	\$2,254.00	\$34,993.14	18.8	12,533
Gas Heating (HVAC/Process) Replacement		0	0.0	10.1	\$93.49	\$3,126.71	\$800.00	\$2,326.71	24.9	1,186
Install High Efficiency Furnaces	No	0	0.0	10.1	\$93.49	\$3,126.71	\$800.00	\$2,326.71	24.9	1,186
Domestic Water Heating Upgrade		26,202	0.9	-88.3	\$3,105.80	\$7,172.65	\$600.00	\$6,572.65	2.1	16,050
ECM 5 Install Tankless Water Heater	Yes	26,202	0.9	-89.4	\$3,095.30	\$7,136.80	\$600.00	\$6,536.80	2.1	15,917
ECM 6 Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	1.1	\$10.49	\$35.85	\$0.00	\$35.85	3.4	133
Custom Measures		28	0.0	9.7	\$93.98	\$850.00	\$0.00	\$850.00	9.0	1,167
ECM 7 Building Envelope Weatherization	Yes	28	0.0	9.7	\$93.98	\$850.00	\$0.00	\$850.00	9.0	1,167
TOTALS		81,701	13.4	-68.4	\$11,593.15	\$87,958.37	\$5,314.00	\$82,644.37	7.1	74,262

* - 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).



Construction & Zoning Building

	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		4,199	2.3	0.0	\$739.18	\$9,853.81	\$740.00	\$9,113.81	12.3	4,228
ECM 1	Install LED Fixtures	Yes	1,040	0.2	0.0	\$183.14	\$1,475.15	\$120.00	\$1,355.15	7.4	1,048
	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	No	489	1.3	0.0	\$86.08	\$4,508.00	\$40.00	\$4,468.00	51.9	492
ECM 2	Retrofit Fixtures with LED Lamps	Yes	2,670	0.8	0.0	\$469.96	\$3,870.66	\$580.00	\$3,290.66	7.0	2,688
	Lighting Control Measures		763	0.2	0.0	\$134.24	\$1,430.00	\$125.00	\$1,305.00	9.7	768
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	705	0.2	0.0	\$124.18	\$1,390.00	\$125.00	\$1,265.00	10.2	710
ECM 4	Install Photocell Controls	Yes	57	0.0	0.0	\$10.06	\$40.00	\$0.00	\$40.00	4.0	58
	Electric Unitary HVAC Measures		1,370	2.2	0.0	\$241.20	\$4,787.90	\$736.00	\$4,051.90	16.8	1,380
ECM 5	Install High Efficiency Electric AC	Yes	1,370	2.2	0.0	\$241.20	\$4,787.90	\$736.00	\$4,051.90	16.8	1,380
	HVAC System Improvements		381	0.0	7.5	\$141.91	\$659.74	\$0.00	\$659.74	4.6	1,259
ECM 6	Install Programmable Thermostats	Yes	381	0.0	7.5	\$141.91	\$659.74	\$0.00	\$659.74	4.6	1,259
	Domestic Water Heating Upgrade		1,202	0.0	0.0	\$211.66	\$28.68	\$0.00	\$28.68	0.1	1,211
ECM 7	Install Low-Flow Domestic Hot Water Devices	Yes	1,202	0.0	0.0	\$211.66	\$28.68	\$0.00	\$28.68	0.1	1,211
	TOTALS		7,916	4.7	7.5	\$1,468.19	\$16,760.13	\$1,601.00	\$15,159.13	10.3	8,846

Notes:

1. The existing baseline for this building, which the potential energy savings is based on, assumes the new facility is occupied and operated as an office building with the equipment and systems in place as of the audit.

2. The retrofit of basement fixtures (20) 8' 2L T12 and (4) 4' 2L T12 to LED technology is not cost effective based on the low assumed run hours of 250 hours a year. Therefore the payback is unattractive. However, If these fixtures will operate at 4 hour/day, year round – this measure would be cost effective at a payback under 9 years. Furthermore, if they operate for even longer and are frequently left on while basement storage space is unoccupied – installing occupancy sensors would likely be cost effective as well.



Public Works Building

	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 (Ibs)
	Lighting Upgrades		24,525	6.9	0.0	\$3,307.80	\$27,691.87	\$4,290.00	\$23,401.87	7.1	24,697
ECM 1	Install LED Fixtures	Yes	12,913	2.8	0.0	\$1,741.60	\$16,825.03	\$2,645.00	\$14,180.03	8.1	13,003
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,425	0.9	0.0	\$192.25	\$3,030.00	\$0.00	\$3,030.00	15.8	1,435
ECM 3	Retrofit Fixtures with LED Lamps	Yes	10,187	3.2	0.0	\$1,373.95	\$7,836.83	\$1,645.00	\$6,191.83	4.5	10,258
	Lighting Control Measures		3,415	1.2	0.0	\$460.65	\$3,164.00	\$390.00	\$2,774.00	6.0	3,439
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	3,415	1.2	0.0	\$460.65	\$3,164.00	\$390.00	\$2,774.00	6.0	3,439
	TOTALS		27,941	8.0	0.0	\$3,768.45	\$30,855.87	\$4,680.00	\$26,175.87	6.9	28,136

* - 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).

Notes:

This building has a high potential for the implementation of a PV system evaluation. Initial screening results for a roof mounted system are provided adjacent to this text. With a higher electrical demand (largely in part due to the two large well pump and motor operation being included on the main electric meter at the Public Works building) and absence of shading on the roof – a PV system may be feasible.



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!

SmartStart: Financing Option



- NJNG provides 0% financing options for SmartStart that will cover up to \$130,000 per year.
- 10 year term-repayments made on regular monthly gas bill
- Need to review project with NJNG to confirm project qualifies.
- The SAVEGREEN program can help with a consultation to discuss your Commercial Energy Efficiency Project.



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

Hutchinson Mechanical Services Ed Hutchinson 856-429-5828 x215 edhutchinson@hutchbiz.com

Direct Install: Financing Option



 Eligible NJNG customers can <u>finance</u> <u>the remaining 30 percent balance</u> at 0% APR through the "SAVEGREEN Project[®] On-Bill Repayment Program" (OBRP) for 36 months.





Direct Install: Financing Option

• Questions? Contact:

Jerry Ryan

Energy Efficiency Operations Manager New Jersey Natural Gas 732-433-4362 (cell) 732 378 4920 (office) jryan@njng.com



Recommended NJCEP Incentives per Building



Ocean Township	SmartStart	Direct Install
Community Center	Х	Х
Municipal Complex	Х	Х
Construction & Zoning Building	Х	Х
Public Works	Х	Х



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 1st 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

Visit NJCleanEnergy.com Call (866) NJSMART

Jim Friedl Outreach Manager 732-855-6543 jfriedl@trcsolutions.com