

New Jersey's Clean Energy Program

LGEA Exit Meeting for:
Township of Barnegat

August 5, 2019



INTRODUCTIONS

Township of Barnegat

- Marty Lisella – Township Administrator
- Curtis Kleier– Sr Administrative Analyst

NJ Clean Energy Program

- Moussa Traore – TRC Auditor
- Sarah Walters – TRC Account Manager
- Amanda Newman– TRC Outreach Manager
- Mike Thulen – ESIP Coordinator (BPU)
- Arif Welcher – Government/Business Manager(BPU)



AGENDA

- The audit process overview
- Energy use & existing conditions
- Review of **E**nergy **C**onservation **M**easures (ECMs) identified
- Questions regarding the draft audit report
- Overview of NJCEP equipment incentives
- Next steps for the Township of Barnegat



LGEA PROCESS

- Application Approval
- Scheduling Call
- Audit
- Benchmarking & Analysis
- Draft Report
- Exit Meeting Presentation
- Final Report

SITE VISIT & UTILITY ANALYSIS

Overview of Systems, Baseline & Existing Conditions:

- Lighting System
- HVAC and Mechanical Systems
- Plug Load Equipment

Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs

Sites Visited/Analyzed

- East Bay Bathroom
- Main Street Food Pantry
- Recreation Building
- Pavilion & Dock
- Emergency Management
- Dock Master's House
- Meadowedge Park
- Lower Shore Well House
- West Bay House #3 and Booster
- Midway Station
- Deer Run Station
- Well House #4 & Main
- Pine Ridge
- 4th Street House
- Mirage #5
- Four Seasons Mirage #6
- Well House #9
- Hillside Ave. Pump



BENCHMARKING

Seasons Mirage #6

ENERGY STAR® Statement of Energy Performance

N/A Four Seasons Mirage #6 (Barnegat Township)

Primary Property Type: Drinking Water Treatment & Distribution
Gross Floor Area (ft²): 900
Built: 1998

For Year Ending: June 30, 2018
Date Generated: May 13, 2019

ENERGY STAR® Score¹

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 Four Seasons Mirage #6 (Barnegat Township) 51 Lakeland Drive Barnegat, New Jersey 08005	Property Owner Barnegat Township 900 W. Bay Avenue Barnegat, NJ 08005 800-698-0080	Primary Contact Martin Lisella 900 W. Bay Avenue Barnegat, NJ 08005 800-698-0080 mlisella@barnegat.net
Property ID: 6770652		

Energy Consumption and Energy Use Intensity (EUI)		
Site EUI 962.1 kBtu/ft²	Annual Energy by Fuel Electric - Grid (kBtu) 865,884 (100%)	National Median Comparison National Median Site EUI (I) N/A National Median Source EUI (I) N/A % Diff from National Median Source EUI N/A%
Source EUI 2,693.9 kBtu/ft²		Annual Emissions Greenhouse Gas Emissions (Metric Tons CO2e/year) 88

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)

Site EUI
962.1 kBtu/ft²

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 ₂ e Emissions Reduction (lbs)
Lighting Upgrades	77,076	20.9	-9.4	\$10,912.02	\$52,412.07	\$8,433.00	\$43,979.07	4.0	76,389
Install LED Fixtures	29,954	5.2	-0.4	\$4,529.05	\$31,649.17	\$4,056.00	\$27,593.17	6.1	30,113
Retrofit Fluorescent Fixtures with LED Lamps and Drivers	9,141	3.0	-0.7	\$1,191.09	\$5,358.28	\$765.00	\$4,593.28	3.9	9,121
Retrofit Fixtures with LED Lamps	37,981	12.7	-8.3	\$5,191.88	\$15,404.62	\$3,612.00	\$11,792.62	2.3	37,155
Lighting Control Measures	9,645	3.0	-1.9	\$1,270.45	\$12,071.00	\$1,170.00	\$10,901.00	8.6	9,480
Install Occupancy Sensor Lighting Controls	9,087	2.7	-1.8	\$1,193.02	\$11,614.00	\$1,170.00	\$10,444.00	8.8	8,933
Install High/Low Lighting Controls	558	0.3	-0.1	\$77.43	\$457.00	\$0.00	\$457.00	5.9	548
Motor Upgrades	16,269	7.1	0.0	\$2,663.77	\$31,965.19	\$0.00	\$31,965.19	12.0	16,383
Premium Efficiency Motors	16,269	7.1	0.0	\$2,663.77	\$31,965.19	\$0.00	\$31,965.19	12.0	16,383
Electric Unitary HVAC Measures	6,660	5.6	0.0	\$968.02	\$42,490.66	\$2,457.50	\$40,033.16	41.4	6,707
Install High Efficiency Air Conditioning Units	6,034	5.0	0.0	\$848.94	\$37,692.30	\$2,273.50	\$35,418.80	41.7	6,077
Install High Efficiency Heat Pumps	626	0.6	0.0	\$119.08	\$4,798.36	\$184.00	\$4,614.36	38.8	630
Gas Heating (HVAC/Process) Replacement	0	0.0	37.3	\$560.80	\$16,157.08	\$2,000.00	\$14,157.08	25.2	4,807
Install High Efficiency Hot Water Boilers	0	0.0	9.6	\$188.51	\$6,621.51	\$400.00	\$6,221.51	33.0	1,563
Install High Efficiency Furnaces	0	0.0	27.7	\$372.29	\$9,535.57	\$1,600.00	\$7,935.57	21.3	3,244
Domestic Water Heating Upgrade	3,696	0.0	0.8	\$882.73	\$86.04	\$0.00	\$86.04	0.1	3,810
Install Low-Flow DHW Devices	3,696	0.0	0.8	\$882.73	\$86.04	\$0.00	\$86.04	0.1	3,810
TOTALS	113,346	36.5	26.7	\$17,257.79	\$155,182.04	\$14,060.50	\$141,121.54	8.2	117,576

* - 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

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		77,068	20.8	-9.4	\$10,910.86	\$52,391.07	\$8,433.00	\$43,958.07	4.0	76,381
ECM 1	Install LED Fixtures	29,954	5.2	-0.4	\$4,529.05	\$31,649.17	\$4,056.00	\$27,593.17	6.1	30,113
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	9,141	3.0	-0.7	\$1,191.09	\$5,358.28	\$765.00	\$4,593.28	3.9	9,121
ECM 3	Retrofit Fixtures with LED Lamps	37,972	12.7	-8.3	\$5,190.72	\$15,383.62	\$3,612.00	\$11,771.62	2.3	37,147
Lighting Control Measures		8,402	2.2	-1.7	\$1,077.98	\$6,783.00	\$595.00	\$6,188.00	5.7	8,267
ECM 4	Install Occupancy Sensor Lighting Controls	7,845	1.9	-1.5	\$1,000.55	\$6,326.00	\$595.00	\$5,731.00	5.7	7,719
ECM 5	Install High/Low Lighting Controls	558	0.3	-0.1	\$77.43	\$457.00	\$0.00	\$457.00	5.9	548
Motor Upgrades		9,683	3.8	0.0	\$1,612.90	\$15,067.56	\$0.00	\$15,067.56	9.3	9,751
ECM 6	Premium Efficiency Motors	9,683	3.8	0.0	\$1,612.90	\$15,067.56	\$0.00	\$15,067.56	9.3	9,751
Domestic Water Heating Upgrade		3,696	0.0	0.8	\$882.73	\$86.04	\$0.00	\$86.04	0.1	3,810
ECM 7	Install Low-Flow DHW Devices	3,696	0.0	0.8	\$882.73	\$86.04	\$0.00	\$86.04	0.1	3,810
TOTALS		98,849	26.8	-10.3	\$14,484.47	\$74,327.67	\$9,028.00	\$65,299.67	4.5	98,209

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EAST BAY BATHROOM

#	Energy Conservation Measure	Cost Effective?	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			1,862	0.4	0	\$330	\$3,228	\$360	\$2,868	8.7	1,875
ECM 1	Install LED Fixtures	Yes	1,429	0.2	0	\$253	\$2,898	\$300	\$2,598	10.3	1,439
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	313	0.1	0	\$55	\$257	\$40	\$217	3.9	315
ECM 3	Retrofit Fixtures with LED Lamps	Yes	120	0.0	0	\$21	\$73	\$20	\$53	2.5	121
TOTALS (COST EFFECTIVE MEASURES)			1,862	0.4	0	\$330	\$3,228	\$360	\$2,868	8.7	1,875
TOTALS (ALL MEASURES)			1,862	0.4	0	\$330	\$3,228	\$360	\$2,868	8.7	1,875

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MAIN STREET FOOD PANTRY

#	Energy Conservation Measure	Cost Effective?	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			5,745	2.1	-1	\$764	\$3,300	\$821	\$2,479	3.2	5,667
ECM 1	Install LED Fixtures	Yes	904	0.1	0	\$122	\$650	\$100	\$550	4.5	911
ECM 2	Retrofit Fixtures with LED Lamps	Yes	4,841	1.9	-1	\$642	\$2,650	\$721	\$1,929	3.0	4,756
Lighting Control Measures			1,628	0.6	0	\$216	\$1,736	\$105	\$1,631	7.6	1,599
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	1,628	0.6	0	\$216	\$1,736	\$105	\$1,631	7.6	1,599
Electric Unitary HVAC Measures			1,075	0.6	0	\$145	\$7,481	\$460	\$7,021	48.3	1,083
ECM 4	Install High Efficiency Air Conditioning Units	No	1,075	0.6	0	\$145	\$7,481	\$460	\$7,021	48.3	1,083
TOTALS (COST EFFECTIVE MEASURES)			7,373	2.7	-1	\$980	\$5,036	\$926	\$4,110	4.2	7,266
TOTALS (ALL MEASURES)			8,448	3.2	-1	\$1,126	\$12,517	\$1,386	\$11,131	9.9	8,349

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RECREATION BUILDING

#	Energy Conservation Measure	Cost Effective?	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			25,316	5.1	-4	\$3,215	\$6,544	\$1,670	\$4,874	1.5	24,998
ECM 1	Install LED Fixtures	Yes	4,139	0.6	0	\$536	\$126	\$126	\$0	0.0	4,168
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,954	0.4	0	\$247	\$675	\$80	\$595	2.4	1,919
ECM 3	Retrofit Fixtures with LED Lamps	Yes	19,223	4.1	-4	\$2,432	\$5,743	\$1,464	\$4,279	1.8	18,911
Lighting Control Measures			5,982	1.3	-1	\$756	\$4,005	\$385	\$3,620	4.8	5,874
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	5,636	1.2	-1	\$712	\$3,780	\$385	\$3,395	4.8	5,535
ECM 5	Install High/Low Lighting Controls	Yes	346	0.1	0	\$44	\$225	\$0	\$225	5.2	339
Electric Unitary HVAC Measures			3,591	2.6	0	\$465	\$15,711	\$986	\$14,725	31.7	3,616
ECM 6	Install High Efficiency Air Conditioning Units	No	3,591	2.6	0	\$465	\$15,711	\$986	\$14,725	31.7	3,616
Gas Heating (HVAC/Process) Replacement			0	0.0	5	\$67	\$2,617	\$400	\$2,217	33.3	535
ECM 7	Install High Efficiency Furnaces	No	0	0.0	5	\$67	\$2,617	\$400	\$2,217	33.3	535
Domestic Water Heating Upgrade			1,251	0.0	0	\$162	\$22	\$0	\$22	0.1	1,260
ECM 8	Install Low-Flow DHW Devices	Yes	1,251	0.0	0	\$162	\$22	\$0	\$22	0.1	1,260
TOTALS (COST EFFECTIVE MEASURES)			32,549	6.4	-5	\$4,132	\$10,571	\$2,055	\$8,516	2.1	32,133
TOTALS (ALL MEASURES)			36,140	9.0	-1	\$4,664	\$28,899	\$3,441	\$25,458	5.5	36,284

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PAVILION & DOCK

#	Energy Conservation Measure	Cost Effective?	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			4,536	0.9	0	\$771	\$6,027	\$614	\$5,413	7.0	4,567
ECM 1	Install LED Fixtures	Yes	3,419	0.7	0	\$581	\$5,887	\$610	\$5,277	9.1	3,443
ECM 2	Retrofit Fixtures with LED Lamps	Yes	1,117	0.2	0	\$190	\$140	\$4	\$136	0.7	1,125
TOTALS (COST EFFECTIVE MEASURES)			4,536	0.9	0	\$771	\$6,027	\$614	\$5,413	7.0	4,567
TOTALS (ALL MEASURES)			4,536	0.9	0	\$771	\$6,027	\$614	\$5,413	7.0	4,567

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EMERGENCY MANAGEMENT

#	Energy Conservation Measure	Cost Effective?	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			2,660	1.6	0	\$428	\$3,931	\$794	\$3,137	7.3	2,648
ECM 1	Install LED Fixtures	Yes	1,301	0.2	0	\$211	\$1,950	\$300	\$1,650	7.8	1,310
ECM 2	Retrofit Fixtures with LED Lamps	Yes	1,359	1.4	0	\$217	\$1,981	\$494	\$1,487	6.9	1,338
Lighting Control Measures			333	0.3	0	\$53	\$696	\$20	\$676	12.7	327
ECM 3	Install Occupancy Sensor Lighting Controls	No	121	0.1	0	\$19	\$464	\$20	\$444	23.0	119
ECM 4	Install High/Low Lighting Controls	Yes	212	0.2	0	\$34	\$232	\$0	\$232	6.9	208
Electric Unitary HVAC Measures			547	0.9	0	\$89	\$7,481	\$460	\$7,021	79.2	551
ECM 5	Install High Efficiency Air Conditioning Units	No	547	0.9	0	\$89	\$7,481	\$460	\$7,021	79.2	551
Gas Heating (HVAC/Process) Replacement			0	0.0	21	\$273	\$4,426	\$800	\$3,626	13.3	2,497
ECM 6	Install High Efficiency Furnaces	No	0	0.0	21	\$273	\$4,426	\$800	\$3,626	13.3	2,497
Domestic Water Heating Upgrade			736	0.0	0	\$119	\$7	\$0	\$7	0.1	741
ECM 7	Install Low-Flow DHW Devices	Yes	736	0.0	0	\$119	\$7	\$0	\$7	0.1	741
TOTALS (COST EFFECTIVE MEASURES)			3,608	1.8	0	\$581	\$4,170	\$794	\$3,376	5.8	3,598
TOTALS (ALL MEASURES)			4,276	2.9	21	\$962	\$16,542	\$2,074	\$14,468	15.0	6,764

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DOCK MASTER'S HOUSE

#	Energy Conservation Measure	Cost Effective?	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			3,407	0.7	0	\$577	\$5,677	\$621	\$5,056	8.8	3,431
ECM 1	Install LED Fixtures	Yes	2,980	0.6	0	\$504	\$5,583	\$600	\$4,983	9.9	3,001
ECM 2	Retrofit Fixtures with LED Lamps	Yes	427	0.1	0	\$72	\$94	\$21	\$73	1.0	430
TOTALS (COST EFFECTIVE MEASURES)			3,407	0.7	0	\$577	\$5,677	\$621	\$5,056	8.8	3,431
TOTALS (ALL MEASURES)			3,407	0.7	0	\$577	\$5,677	\$621	\$5,056	8.8	3,431

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MEADOWEDGE PARK

#	Energy Conservation Measure	Cost Effective?	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			7,314	2.9	-3	\$1,010	\$1,681	\$170	\$1,511	1.5	6,927
ECM 1	Retrofit Fixtures with LED Lamps	Yes	7,314	2.9	-3	\$1,010	\$1,681	\$170	\$1,511	1.5	6,927
Lighting Control Measures			285	0.1	0	\$39	\$1,698	\$175	\$1,523	39.1	267
ECM 2	Install Occupancy Sensor Lighting Controls	No	285	0.1	0	\$39	\$1,698	\$175	\$1,523	39.1	267
Electric Unitary HVAC Measures			213	0.1	0	\$31	\$1,034	\$0	\$1,034	33.4	215
ECM 3	Install High Efficiency Air Conditioning Units	No	213	0.1	0	\$31	\$1,034	\$0	\$1,034	33.4	215
Gas Heating (HVAC/Process) Replacement			0	0.0	10	\$189	\$6,622	\$400	\$6,222	33.0	1,563
ECM 4	Install High Efficiency Hot Water Boilers	No	0	0.0	10	\$189	\$6,622	\$400	\$6,222	33.0	1,563
Domestic Water Heating Upgrade			1,472	0.0	0	\$214	\$14	\$0	\$14	0.1	1,482
ECM 5	Install Low-Flow DHW Devices	Yes	1,472	0.0	0	\$214	\$14	\$0	\$14	0.1	1,482
TOTALS (COST EFFECTIVE MEASURES)			8,786	2.9	-3	\$1,224	\$1,696	\$170	\$1,526	1.2	8,409
TOTALS (ALL MEASURES)			9,284	3.1	7	\$1,482	\$11,050	\$745	\$10,305	7.0	10,454

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LOWER SHORE WELL HOUSE

#	Energy Conservation Measure	Cost Effective?	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)
Motor Upgrades			154	0.1	0	\$343	\$1,788	\$0	\$1,788	5.2	155
ECM 1	Premium Efficiency Motors	Yes	154	0.1	0	\$343	\$1,788	\$0	\$1,788	5.2	155
Domestic Water Heating Upgrade			164	0.0	0	\$364	\$14	\$0	\$14	0.0	165
ECM 2	Install Low-Flow DHW Devices	Yes	164	0.0	0	\$364	\$14	\$0	\$14	0.0	165
TOTALS (COST EFFECTIVE MEASURES)			318	0.1	0	\$708	\$1,803	\$0	\$1,803	2.5	320
TOTALS (ALL MEASURES)			318	0.1	0	\$708	\$1,803	\$0	\$1,803	2.5	320

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WEST BAY HOUSE #3 & BOOSTER

#	Energy Conservation Measure	Cost Effective?	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			1,832	0.9	0	\$257	\$2,405	\$310	\$2,095	8.1	1,813
ECM 1	Install LED Fixtures	Yes	635	0.1	0	\$91	\$966	\$100	\$866	9.5	640
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,189	0.8	0	\$165	\$1,418	\$210	\$1,208	7.3	1,165
ECM 3	Retrofit Fixtures with LED Lamps	No	8	0.0	0	\$1	\$21	\$0	\$21	18.1	8
Lighting Control Measures			210	0.1	0	\$29	\$464	\$60	\$404	13.8	206
ECM 4	Install Occupancy Sensor Lighting Controls	No	210	0.1	0	\$29	\$464	\$60	\$404	13.8	206
Motor Upgrades			2,257	0.5	0	\$322	\$4,645	\$0	\$4,645	14.4	2,273
ECM 5	Premium Efficiency Motors	No	2,257	0.5	0	\$322	\$4,645	\$0	\$4,645	14.4	2,273
TOTALS (COST EFFECTIVE MEASURES)			1,824	0.9	0	\$256	\$2,384	\$310	\$2,074	8.1	1,805
TOTALS (ALL MEASURES)			4,299	1.4	0	\$609	\$7,513	\$370	\$7,143	11.7	4,292

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WELL HOUSE #7

#	Energy Conservation Measure	Cost Effective?	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			10,787	1.4	0	\$1,349	\$2,620	\$300	\$2,320	1.7	10,863
ECM 1	Install LED Fixtures	Yes	6,973	1.1	0	\$872	\$1,932	\$200	\$1,732	2.0	7,022
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	3,814	0.4	0	\$477	\$688	\$100	\$588	1.2	3,841
Lighting Control Measures			581	0.1	0	\$73	\$810	\$105	\$705	9.7	585
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	581	0.1	0	\$73	\$810	\$105	\$705	9.7	585
TOTALS (COST EFFECTIVE MEASURES)			11,368	1.5	0	\$1,421	\$3,430	\$405	\$3,025	2.1	11,448
TOTALS (ALL MEASURES)			11,368	1.5	0	\$1,421	\$3,430	\$405	\$3,025	2.1	11,448

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

PUMP HOUSE #3

#	Energy Conservation Measure	Cost Effective?	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			218	0.1	0	\$29	\$115	\$22	\$93	3.3	218
ECM 1	Retrofit Fixtures with LED Lamps	Yes	218	0.1	0	\$29	\$115	\$22	\$93	3.3	218
Motor Upgrades			1,439	0.6	0	\$192	\$5,032	\$0	\$5,032	26.2	1,449
ECM 2	Premium Efficiency Motors	No	1,439	0.6	0	\$192	\$5,032	\$0	\$5,032	26.2	1,449
TOTALS (COST EFFECTIVE MEASURES)			218	0.1	0	\$29	\$115	\$22	\$93	3.3	218
TOTALS (ALL MEASURES)			1,657	0.7	0	\$221	\$5,147	\$22	\$5,125	23.2	1,667

* - All incentives presented in this table are based on NJ SmartStart 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).

MIDWAY STATION

#	Energy Conservation Measure	Cost Effective?	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			84	0.0	0	\$12	\$42	\$2	\$40	3.3	82
ECM 1	Retrofit Fixtures with LED Lamps	Yes	84	0.0	0	\$12	\$42	\$2	\$40	3.3	82
Motor Upgrades			2,225	1.5	0	\$335	\$3,783	\$0	\$3,783	11.3	2,241
ECM 2	Premium Efficiency Motors	Yes	2,225	1.5	0	\$335	\$3,783	\$0	\$3,783	11.3	2,241
TOTALS (COST EFFECTIVE MEASURES)			2,310	1.5	0	\$347	\$3,825	\$2	\$3,823	11.0	2,323
TOTALS (ALL MEASURES)			2,310	1.5	0	\$347	\$3,825	\$2	\$3,823	11.0	2,323

* - All incentives presented in this table are based on NJ SmartStart 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).

DEER RUN STATION

#	Energy Conservation Measure	Cost Effective?	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			323	0.1	0	\$46	\$247	\$42	\$205	4.5	325
ECM 1	Retrofit Fixtures with LED Lamps	Yes	323	0.1	0	\$46	\$247	\$42	\$205	4.5	325
TOTALS (COST EFFECTIVE MEASURES)			323	0.1	0	\$46	\$247	\$42	\$205	4.5	325
TOTALS (ALL MEASURES)			323	0.1	0	\$46	\$247	\$42	\$205	4.5	325

* - All incentives presented in this table are based on NJ SmartStart 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).

WELL HOUSE #4 & MAIN

#	Energy Conservation Measure	Cost Effective?	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			3,829	1.2	-1	\$737	\$4,393	\$794	\$3,599	4.9	3,760
ECM 1	Install LED Fixtures	Yes	2,010	0.4	0	\$387	\$3,250	\$500	\$2,750	7.1	1,974
ECM 2	Retrofit Fixtures with LED Lamps	Yes	1,819	0.9	0	\$350	\$1,143	\$294	\$849	2.4	1,786
Lighting Control Measures			295	0.1	0	\$57	\$810	\$105	\$705	12.4	290
ECM 3	Install Occupancy Sensor Lighting Controls	No	295	0.1	0	\$57	\$810	\$105	\$705	12.4	290
Motor Upgrades			2,414	2.0	0	\$474	\$6,273	\$0	\$6,273	13.2	2,431
ECM 4	Premium Efficiency Motors	No	2,414	2.0	0	\$474	\$6,273	\$0	\$6,273	13.2	2,431
Electric Unitary HVAC Measures			608	0.8	0	\$119	\$5,985	\$368	\$5,617	47.1	612
ECM 5	Install High Efficiency Air Conditioning Units	No	608	0.8	0	\$119	\$5,985	\$368	\$5,617	47.1	612
Gas Heating (HVAC/Process) Replacement			0	0.0	2	\$33	\$2,492	\$400	\$2,092	64.1	212
ECM 6	Install High Efficiency Furnaces	No	0	0.0	2	\$33	\$2,492	\$400	\$2,092	64.1	212
Domestic Water Heating Upgrade			0	0.0	1	\$14	\$22	\$0	\$22	1.6	88
ECM 7	Install Low-Flow DHW Devices	Yes	0	0.0	1	\$14	\$22	\$0	\$22	1.6	88
TOTALS (COST EFFECTIVE MEASURES)			3,829	1.2	0	\$750	\$4,414	\$794	\$3,620	4.8	3,849
TOTALS (ALL MEASURES)			7,147	4.2	2	\$1,433	\$19,975	\$1,667	\$18,308	12.8	7,394

* - All incentives presented in this table are based on NJ SmartStart 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).

PINE RIDGE

#	Energy Conservation Measure	Cost Effective?	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			250	0.1	0	\$34	\$241	\$31	\$210	6.2	248
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	138	0.1	0	\$18	\$206	\$30	\$176	9.6	135
ECM 2	Retrofit Fixtures with LED Lamps	Yes	112	0.0	0	\$16	\$35	\$1	\$34	2.2	112
TOTALS (COST EFFECTIVE MEASURES)			250	0.1	0	\$34	\$241	\$31	\$210	6.2	248
TOTALS (ALL MEASURES)			250	0.1	0	\$34	\$241	\$31	\$210	6.2	248

* - All incentives presented in this table are based on NJ SmartStart 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).



4TH STREET HOUSE

#	Energy Conservation Measure	Cost Effective?	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			1,156	0.5	0	\$148	\$1,659	\$230	\$1,429	9.6	1,164
ECM 1	Install LED Fixtures	Yes	737	0.3	0	\$94	\$1,257	\$120	\$1,137	12.0	742
ECM 2	Retrofit Fixtures with LED Lamps	Yes	419	0.2	0	\$54	\$402	\$110	\$292	5.4	422
Motor Upgrades			7,303	2.2	0	\$935	\$9,496	\$0	\$9,496	10.2	7,355
ECM 3	Premium Efficiency Motors	Yes	7,303	2.2	0	\$935	\$9,496	\$0	\$9,496	10.2	7,355
TOTALS (COST EFFECTIVE MEASURES)			8,460	2.8	0	\$1,083	\$11,155	\$230	\$10,925	10.1	8,519
TOTALS (ALL MEASURES)			8,460	2.8	0	\$1,083	\$11,155	\$230	\$10,925	10.1	8,519

* - All incentives presented in this table are based on NJ SmartStart 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).

MIRAGE #5

#	Energy Conservation Measure	Cost Effective?	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			4,336	1.6	0	\$571	\$4,777	\$708	\$4,069	7.1	4,367
ECM 1	Install LED Fixtures	Yes	2,560	0.4	0	\$337	\$2,600	\$400	\$2,200	6.5	2,578
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,733	1.2	0	\$228	\$2,114	\$305	\$1,809	7.9	1,745
ECM 3	Retrofit Fixtures with LED Lamps	Yes	43	0.0	0	\$6	\$63	\$3	\$60	10.5	44
Lighting Control Measures			251	0.2	0	\$33	\$1,042	\$110	\$932	28.2	253
ECM 4	Install Occupancy Sensor Lighting Controls	No	251	0.2	0	\$33	\$1,042	\$110	\$932	28.2	253
Motor Upgrades			476	0.1	0	\$63	\$948	\$0	\$948	15.1	479
ECM 5	Premium Efficiency Motors	No	476	0.1	0	\$63	\$948	\$0	\$948	15.1	479
Domestic Water Heating Upgrade			74	0.0	0	\$10	\$7	\$0	\$7	0.7	74
ECM 6	Install Low-Flow DHW Devices	Yes	74	0.0	0	\$10	\$7	\$0	\$7	0.7	74
TOTALS (COST EFFECTIVE MEASURES)			4,410	1.6	0	\$580	\$4,784	\$708	\$4,076	7.0	4,441
TOTALS (ALL MEASURES)			5,137	1.9	0	\$676	\$6,774	\$818	\$5,956	8.8	5,173

* - All incentives presented in this table are based on NJ SmartStart 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).

FOUR SEASONS MIRAGE #6

#	Energy Conservation Measure	Cost Effective?	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			181	0.1	0	\$24	\$202	\$42	\$160	6.6	183
ECM 1	Retrofit Fixtures with LED Lamps	Yes	181	0.1	0	\$24	\$202	\$42	\$160	6.6	183
TOTALS (COST EFFECTIVE MEASURES)			181	0.1	0	\$24	\$202	\$42	\$160	6.6	183
TOTALS (ALL MEASURES)			181	0.1	0	\$24	\$202	\$42	\$160	6.6	183

* - All incentives presented in this table are based on NJ SmartStart 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).



WELL HOUSE #9

#	Energy Conservation Measure	Cost Effective?	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			2,936	1.0	0	\$558	\$4,636	\$792	\$3,844	6.9	2,948
ECM 1	Install LED Fixtures	Yes	2,575	0.4	0	\$490	\$3,900	\$600	\$3,300	6.7	2,593
ECM 2	Retrofit Fixtures with LED Lamps	Yes	360	0.6	0	\$68	\$736	\$192	\$544	8.0	354
Lighting Control Measures			81	0.1	0	\$15	\$810	\$105	\$705	46.5	79
ECM 3	Install Occupancy Sensor Lighting Controls	No	81	0.1	0	\$15	\$810	\$105	\$705	46.5	79
Electric Unitary HVAC Measures			626	0.6	0	\$119	\$4,798	\$184	\$4,614	38.7	630
ECM 4	Install High Efficiency Heat Pumps	No	626	0.6	0	\$119	\$4,798	\$184	\$4,614	38.7	630
TOTALS (COST EFFECTIVE MEASURES)			2,936	1.0	0	\$558	\$4,636	\$792	\$3,844	6.9	2,948
TOTALS (ALL MEASURES)			3,642	1.7	0	\$692	\$10,244	\$1,081	\$9,163	13.2	3,657

* - All incentives presented in this table are based on NJ SmartStart 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).

HILLSIDE AVE PUMP

#	Energy Conservation Measure	Cost Effective?	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			303	0.1	0	\$53	\$687	\$110	\$577	10.8	305
ECM 1	Install LED Fixtures	Yes	291	0.0	0	\$51	\$650	\$100	\$550	10.8	293
ECM 2	Retrofit Fixtures with LED Lamps	Yes	12	0.0	0	\$2	\$37	\$10	\$27	12.9	12
TOTALS (COST EFFECTIVE MEASURES)			303	0.1	0	\$53	\$687	\$110	\$577	10.8	305
TOTALS (ALL MEASURES)			303	0.1	0	\$53	\$687	\$110	\$577	10.8	305

* - All incentives presented in this table are based on NJ SmartStart 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

ELIGIBLE SECTORS

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

INCENTIVE PROGRAMS

Equipment Rebates:

- **SmartStart**
- **Customer Tailored Energy Efficiency Pilot (CTEEP)**
- **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)



RECOMMENDED NJCEP INCENTIVES PER BUILDING

	Direct Install	SmartStart	CTEEP
East Bay Bathroom		X	X
Main St. Food Pantry	X	X	X
Recreation Bldg.	X	X	X
Pavilion & Dock	X	X	X
Emergency Mgmt.	X	X	X
Dock Master's House	X	X	X
Meadowedge Park	X	X	X

	Direct Install	SmartStart	CTEEP
Lower Shore Well House	X		
West Bay Bathroom / Booster	X	X	X
Well House \$7	X	X	X
Pump House #3	X	X	X
Midway Station	X	X	X
Deer Run P.S.	X	X	X
Well House #4 & Main	X	X	X

* Some sites with only lighting upgrades will need further assessment for Direct Install eligibility. 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

RECOMMENDED NJCEP INCENTIVES PER BUILDING

	Direct Install	SmartStart	CTEEP
Pine Ridge Pump Station		X	
4 th Street House	X	X	X
Mirage #5	X	X	X
Four Seasons Mirage #6		X	
Well House #9	X	X	X
Hillside Ave. Pump		X	

* Some sites with only lighting upgrades will need further assessment for Direct Install eligibility. 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

DIRECT INSTALL

NJCleanEnergy.com/DI



What is DI: Turn-key retrofit program to replace outdated and inefficient equipment, including lighting, HVAC, refrigeration, etc.

Qualifications: Average electric peak demand <200 kW in the previous 12 months

- About:**
- Pre-approved participating contractors provide support and process paperwork
 - Incentives paid directly to the contractor
 - Fast project turnaround time (4-6 months)

- Incentives:**
- \$125,000 incentive funding per project/building ([\\$250K](#) UEZ/OZ/MUNI/K-12 Public Schools), or
 - \$250,000 entity cap ([\\$4MM](#) UEZ/OZ/MUNI/K-12)

DIRECT INSTALL

NJCleanEnergy.com/DI

Facilities in Urban Enterprise Zones (UEZ), Opportunity Zones (OZ), municipalities, and K-12 public schools:

INCENTIVE FUNDING

CUSTOMER

Up to **80%** of installed cost is paid directly to the contractor

20% of installed cost

All other eligible facilities:

INCENTIVE FUNDING

CUSTOMER

Up to **70%** of installed cost is paid directly to the contractor

30% of installed cost



DIRECT INSTALL

NJCleanEnergy.com/DI

Participating Contractor

Hutchinson Mechanical Services

Pete Hatton

856-429-5828 x259

petehatton@hutchbiz.com



DIRECT INSTALL: FINANCING OPTION

- Eligible NJNG customers can finance the remaining 30 percent balance at 0% APR through the “SAVEGREEN Project® On-Bill Repayment Program” (OBRP) for 36 months.
- For measures that may not qualify for Direct Install, NJNG also offers financing options for SmartStart that will cover up to \$130,000 per year.



- Questions? Contact:

Jerry Ryan

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

SMARTSTART

NJCleanEnergy.com/SSB

What is SSB: Individual high efficiency equipment rebates for new construction, renovation, remodeling, equipment replacement

Qualifications:

- All C&I customer types contributing into the Societal Benefits Charge (SBC)

About:

- Prescriptive and custom designed measures
- Pre-approval required only for lighting projects with incentives >\$100,000 and all custom projects
- For measures not requiring pre-approval, applications must be submitted to the program within one year of purchase.

Incentives:

- Prescriptive: \$500,000 cap for each electric or gas account
- Custom, lesser of the following:
 - \$0.16/kWh and/or \$1.60/Therm saved annually
 - 50% of incremental installed cost
 - Buy-dwon to 1 year payback based on incremental cost and savings



SMARTSTART

NJCleanEnergy.com/SSB

Prescriptive Incentives

- Lighting & Lighting Controls
- Packaged HVAC
- Boilers & Water Heaters
- Chillers
- VFD's
- Food Service
- Refrigeration

Prescriptive Only:

**DOUBLE
INCENTIVES FOR
OZ/UEZ/ MUNI/K-12
PUBLIC SCHOOLS**

Custom Incentives

- New or innovative technologies proven to be cost-effective and not listed as prescriptive
- Projects must have a minimum first year energy savings of 75,000 kWh or 1,500 therms
- Project pre and post inspection required



CUSTOMER TAILORED ENERGY EFFICIENCY PILOT

NJCleanEnergy.com/CTEEP

What is CTEEP: A streamlined/single application process for participants submitting multiple different technology types.

Qualifications:

- All C&I customer types contributing into the Societal Benefits Charge (SBC)

About:

- On site assistance available
- Additional technical incentive available to offset soft costs associated with developing and planning custom projects

Incentives:

- \$250,000 fiscal year entity cap
- Technical assistance incentives for custom project evaluation (up to \$10K)

**SAME INCENTIVE
VALUES AS
SMARTSTART**

SMARTSTART & CTEEP: FINANCING OPTION

- NJNG provides 0% financing options 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.



- Questions? Contact:

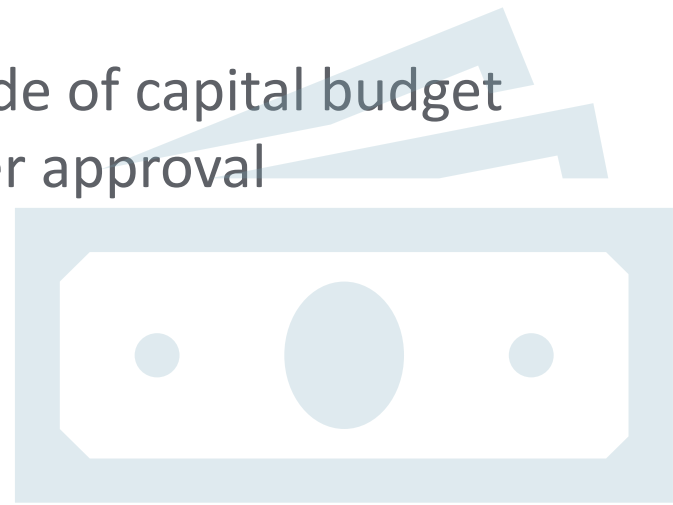
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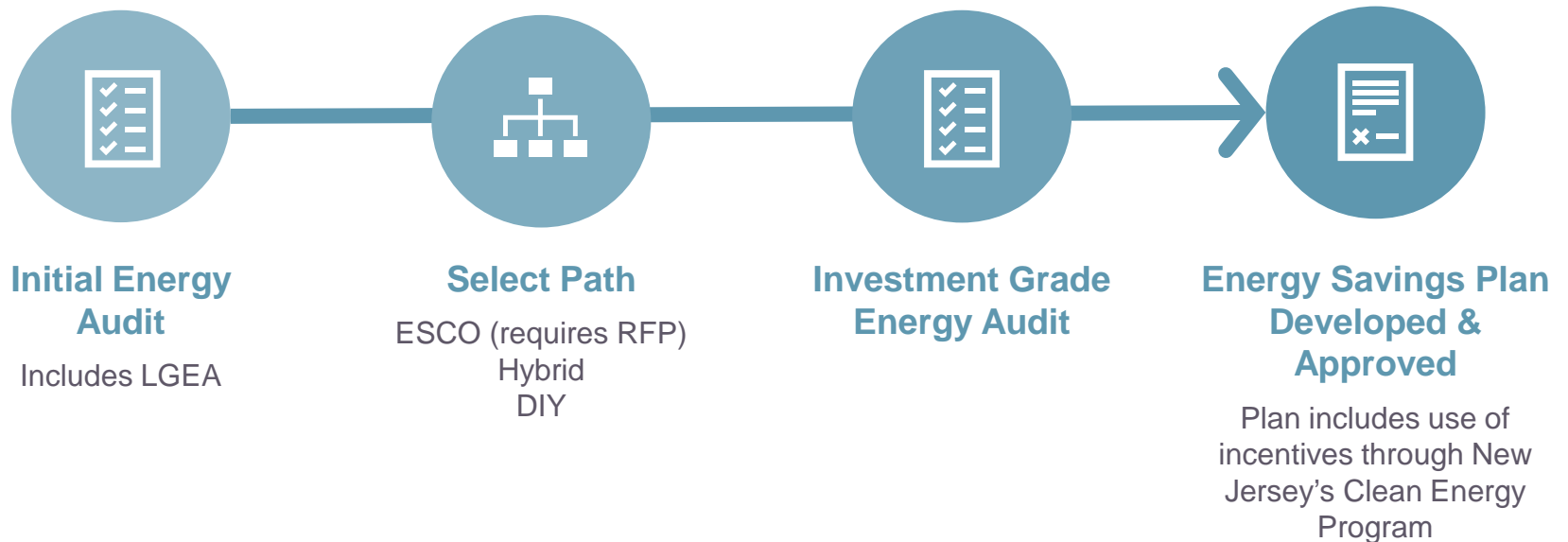
FINANCING MECHANISM: ESIP

ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- Provides alternative financing for energy savings projects at public institutions
- Administered directly by the BPU
- Value of energy savings leveraged to pay for cost of EE projects over a 15 year contract
- Requires NO new bonding and is outside of capital budget
- Does not count as debt or require voter approval



FINANCING MECHANISM: ESIP



ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

FOR MORE INFORMATION

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New Jersey's
cleanenergy
program™

FOR MORE INFORMATION

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QUESTIONS

