New Jersey's Clean Energy Program

LGEA Presentation Toms River Township

November 10, 2020





INTRODUCTIONS

- Toms River Township
 - Alexander Davidson Chief Financial Officer
 - Robert J Chankalian Township Engineer
 - Craig Ambrosio Division Manager of Parks, Buildings & Grounds/Code Enforcement
 - Jim Rutala Consultant
- NJ Clean Energy Program
 - Aimee Lalonde TRC Program Manager
 - Yagna Otia TRC Auditor
 - Sarah Walters TRC Account Manager
 - Tony O'Donnell TRC Outreach Manager
 - Michelle Rossi ESIP Coordinator (BPU)



Agenda

- The audit process overview
- Energy use & existing conditions
- Review of Energy Conservation Measures (ECMs) identified
- Questions regarding the draft audit report
- Overview of NJCEP equipment incentives
- Next steps for Toms River Township



LGEA PROCESS

Application Approval

Scheduling Call

Audit

Benchmarking & Analysis

Draft Report

LGEA 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
- Solar Consumption and Costs



Sites Visited/Analyzed

- Municipal Complex
- Public Works Complex
- Senior Center
- Richard C. Clement Law Enforcement Center
- Recreation Building
- Riverwood Park
- Youth Center
- Animal Facility
- Bey Lea Golf Course
- J. Mark Mutter Records Center
- Veterans Park Building
- Huddy Park Restrooms
- Lord House Lifeguard Station
- Winding River Park Ice Rinks

UTILITY BREAKOUT





Benchmarking

Professional Engineer or Registered

Architect Stamp (If applicable)



BENCHMARKING





ALL OPPORTUNITIES

Savings Potential



- Lighting Upgrades
- Lighting Control Measures
- Motor Upgrades
- Variable Frequency Drive (VFD) Measures
- Electric Unitary HVAC Measures
- Electric Chiller Replacement
- Domestic Water Heating Upgrade
- Food Service & Refrigeration Measures



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 (Ibs)
Lighting	Upgrades	589,051	113.4	-118.9	\$77,324	\$213,661	\$64,718	\$148,943	1.9	579,253
ECM 1	Install LED Fixtures	138,779	22.8	-25.6	\$20,355	\$72,950	\$3,460	\$69 <i>,</i> 490	3.4	136,751
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	29,323	5.7	-6.4	\$3,707	\$9,648	\$2,850	\$6,798	1.8	28,779
ECM 3	Retrofit Fixtures with LED Lamps	420,375	84.8	-86.7	\$53,186	\$130,700	\$58,408	\$72,292	1.4	413,159
ECM 4	Install LED Exit Signs	574	0.1	-0.1	\$76	\$362	\$0	\$362	4.8	564
Lighting	Control Measures	169,688	33.0	-33.9	\$21,371	\$141,583	\$43,885	\$97,698	4.6	166,906
ECM 5	Install Occupancy Sensor Lighting Controls	146,922	30.1	-29.1	\$18,539	\$122,758	\$26,595	\$96,163	5.2	144,545
ECM 6	Install Daylight Dimming/Photocell Controls	144	0.0	0.0	\$20	\$600	\$0	\$600	30.6	145
ECM 7	Install High/Low Lighting Controls	22,622	2.9	-4.8	\$2,812	\$18,225	\$17,290	\$935	0.3	22,216
Motor L	Jpgrades	322	0.1	0.0	\$47	\$1,264	\$0	\$1,264	27.0	325
ECM 8	Premium Efficiency Motors	322	0.1	0.0	\$47	\$1,264	\$0	\$1,264	27.0	325
Variable	Prequency Drive (VFD) Measures	429,458	74.8	29.9	\$52,804	\$227,982	\$62,550	\$165,432	3.1	435,962
ECM 9	Install VFD on Variable Air Volume (VAV) Fans	188,093	40.3	0.0	\$24,268	\$104,488	\$29,400	\$75,088	3.1	189,408
ECM 10	Install VFDs on Constant Volume (CV) Fans	112,096	19.4	0.0	\$13,090	\$45,443	\$13,600	\$31,843	2.4	112,880
ECM 11	Install VFDs on Chilled Water Pumps	72,533	10.8	0.0	\$8,385	\$27,012	\$7,600	\$19,412	2.3	73,040
ECM 12	Install VFDs on Heating Water Pumps	44,723	4.5	0.0	\$5,368	\$39,194	\$9,350	\$29,844	5.6	45,036
ECM 13	Install VFDs on Cooling Tower Fans	1,740	-0.2	0.0	\$198	\$7,768	\$800	\$6,968	35.2	1,752
ECM 14	Install VFDs on Kitchen Hood Fan Motors	10,273	0.0	29.9	\$1,494	\$4,076	\$1,800	\$2,276	1.5	13,846
Electric	Unitary HVAC Measures	12,603	7.0	0.0	\$1,700	\$89,218	\$10,345	\$78 <i>,</i> 873	46.4	12,692
ECM 15	Install High Efficiency Air Conditioning Units	7,066	5.0	0.0	\$987	\$62,501	\$8,014	\$54,487	55.2	7,116
ECM 16	Install High Efficiency Heat Pumps	5,537	2.1	0.0	\$713	\$26,717	\$2,331	\$24,386	34.2	5,576
Electric	Chiller Replacement	70,059	26.6	0.0	\$8,104	\$200,671	\$32,400	\$168,271	20.8	70,549
ECM 17	Install High Efficiency Chillers	70,059	26.6	0.0	\$8,104	\$200,671	\$32,400	\$168,271	20.8	70,549
Domest	ic Water Heating Upgrade	3,306	0.0	58.7	\$1,078	\$2,229	\$1,323	\$905	0.8	10,207
ECM 18	Install Low-Flow DHW Devices	3,306	0.0	58.7	\$1,078	\$2,229	\$1,323	\$905	0.8	10,207
Food Se	rvice & Refrigeration Measures	11,440	1.3	0.0	\$1,431	\$6,906	\$950	\$5,956	4.2	11,520
ECM 19	Refrigeration Controls	172	0.0	0.0	\$20	\$252	\$150	\$102	5.2	173
ECM 20	Replace Refrigeration Equipment	630	0.1	0.0	\$85	\$4,124	\$100	\$4,024	47.4	634
ECM 21	Vending Machine Control	10,638	1.2	0.0	\$1,326	\$2,530	\$700	\$1,830	1.4	10,713
	TOTALS	1,285,927	256.1	-64.1	\$163,857	\$883,512	\$216,171	\$667,341	4.1	1,287,413

10

COST EFFECTIVE OPPORTUNITIES

Savings Potential





Lighting Upgrades

Motor Upgrades

Lighting Control Measures

Electric Chiller Replacement

Domestic Water Heating Upgrade

Food Service & Refrigeration Measures

Variable Frequency Drive (VFD) Measures

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 (Ibs)
Lighting	Upgrades	587,018	113.4	-118.8	\$76,987	\$198,627	\$63,118	\$135,509	1.8	577,207
ECM 1	Install LED Fixtures	136,781	22.8	-25.6	\$20,023	\$58,061	\$1,860	\$56,201	2.8	134,739
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	29,323	5.7	-6.4	\$3,707	\$9,648	\$2,850	\$6,798	1.8	28,779
ECM 3	Retrofit Fixtures with LED Lamps	420,375	84.8	-86.7	\$53,186	\$130,700	\$58,408	\$72,292	1.4	413,159
ECM 4	Install LED Exit Signs	539	0.1	-0.1	\$71	\$217	\$0	\$217	3.1	530
Lighting	Control Measures	153,344	29.1	-30.5	\$19,214	\$110,549	\$37,575	\$72,974	3.8	150,846
ECM 5	Install Occupancy Sensor Lighting Controls	130,722	26.2	-25.7	\$16,401	\$92,324	\$20,285	\$72,039	4.4	128,630
ECM 6	Install Daylight Dimming/Photocell Controls	0	0.0	0.0	\$0	\$0	\$0	\$0	0.0	0
ECM 7	Install High/Low Lighting Controls	22,622	2.9	-4.8	\$2,812	\$18,225	\$17,290	\$935	0.3	22,216
Motor L	lpgrades	214	0.0	0.0	\$29	\$352	\$0	\$352	12.2	216
ECM 8	Premium Efficiency Motors	214	0.0	0.0	\$29	\$352	\$0	\$352	12.2	216
Variable	Frequency Drive (VFD) Measures	427,718	74.9	29.9	\$52,605	\$220,214	\$61,750	\$158,464	3.0	434,210
ECM 9	Install VFD on Variable Air Volume (VAV) Fans	188,093	40.3	0.0	\$24,268	\$104,488	\$29,400	\$75,088	3.1	189,408
ECM 10	Install VFDs on Constant Volume (CV) Fans	112,096	19.4	0.0	\$13,090	\$45,443	\$13,600	\$31,843	2.4	112,880
ECM 11	Install VFDs on Chilled Water Pumps	72,533	10.8	0.0	\$8,385	\$27,012	\$7,600	\$19,412	2.3	73,040
ECM 12	Install VFDs on Heating Water Pumps	44,723	4.5	0.0	\$5 <i>,</i> 368	\$39,194	\$9,350	\$29,844	5.6	45,036
ECM 13	Install VFDs on Cooling Tower Fans	0	0.0	0.0	\$0	\$0	\$0	\$0	0.0	0
ECM 14	Install VFDs on Kitchen Hood Fan Motors	10,273	0.0	29.9	\$1,494	\$4,076	\$1,800	\$2,276	1.5	13,846
Electric	Chiller Replacement	58,273	20.5	0.0	\$6,633	\$118,167	\$21,600	\$96,567	14.6	58,680
ECM 17	Install High Efficiency Chillers	58,273	20.5	0.0	\$6,633	\$118,167	\$21,600	\$96,567	14.6	58,680
Domest	ic Water Heating Upgrade	3,306	0.0	58.7	\$1,078	\$2,229	\$1,323	\$905	0.8	10,207
ECM 18	Install Low-Flow DHW Devices	3,306	0.0	58.7	\$1,078	\$2,229	\$1,323	\$905	0.8	10,207
Food Se	rvice & Refrigeration Measures	10,810	1.2	0.0	\$1,346	\$2,782	\$850	\$1,932	1.4	10,886
ECM 19	Refrigeration Controls	172	0.0	0.0	\$20	\$252	\$150	\$102	5.2	173
ECM 21	Vending Machine Control	10,638	1.2	0.0	\$1,326	\$2,530	\$700	\$1,830	1.4	10,713
	TOTALS	1,240,683	239.1	-60.7	\$157,892	\$652,919	\$186,216	\$466,703	3.0	1,242,251

* - 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.

MUNICIPAL COMPLEX

	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 (Ibs)
Lighting	Upgrades		199,640	44.4	-42	\$26,303	\$57,239	\$16,408	\$40,831	1.6	196,074
ECM 1	Install LED Fixtures	Yes	117,122	21.8	-25	\$15,431	\$22,653	\$1,660	\$20,993	1.4	115,030
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	2,335	0.7	0	\$308	\$954	\$280	\$674	2.2	2,293
ECM 3	Retrofit Fixtures with LED Lamps	Yes	79,644	21.8	-17	\$10,493	\$33,415	\$14,468	\$18,947	1.8	78,220
ECM 4	Install LED Exit Signs	Yes	539	0.1	0	\$71	\$217	\$0	\$217	3.1	530
Lighting	Control Measures		21,269	5.0	-5	\$2,802	\$39,060	\$15,720	\$23,340	8.3	20,887
ECM 5	Install Occupancy Sensor Lighting Controls	No	15,964	3.8	-3	\$2,103	\$29,160	\$6,020	\$23,140	11.0	15,678
ECM 6	Install High/Low Lighting Controls	Yes	5,304	1.2	-1	\$699	\$9,900	\$9,700	\$200	0.3	5,209
Variable	Frequency Drive (VFD) Measures		9,833	1.3	0	\$1,319	\$8,814	\$3,800	\$5,014	3.8	9,901
ECM 7	Install VFDs on Heating Water Pumps	Yes	9,833	1.3	0	\$1,319	\$8,814	\$3,800	\$5,014	3.8	9,901
Domest	ic Water Heating Upgrade		523	0.0	6	\$140	\$194	\$194	\$0	0.0	1,246
ECM 8	Install Low-Flow DHW Devices	Yes	523	0.0	6	\$140	\$194	\$194	\$0	0.0	1,246
Food Se	rvice & Refrigeration Measures		1,954	0.2	0	\$262	\$460	\$100	\$360	1.4	1,968
ECM 9	Vending Machine Control	Yes	1,954	0.2	0	\$262	\$460	\$100	\$360	1.4	1,968
	TOTALS (COST EFFECTIVE MEASURES)		217,255	47.1	-37	\$28,723	\$76,607	\$30,202	\$46,405	1.6	214,398
	TOTALS (ALL MEASURES)		233,219	50.9	-41	\$30,826	\$105,767	\$36,222	\$69,545	2.3	230,076

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



PUBLIC WORKS COMPLEX

•	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 (Ibs)
Lighting	Upgrades		12,306	4.1	-3	\$1,695	\$5,937	\$2,778	\$3,159	1.9	12,085
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,067	0.4	0	\$147	\$512	\$160	\$352	2.4	1,048
ECM 2	Retrofit Fixtures with LED Lamps	Yes	11,239	3.7	-2	\$1,548	\$5,426	\$2,618	\$2,808	1.8	11,037
Lighting	Control Measures		20,470	7.3	-4	\$2,819	\$11,032	\$2,530	\$8,502	3.0	20,102
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	20,470	7.3	-4	\$2,819	\$11,032	\$2,530	\$8,502	3.0	20,102
Variable	Frequency Drive (VFD) Measures		52,120	14.8	0	\$7,300	\$33,212	\$10,800	\$22,412	3.1	52,485
ECM 4	Install VFD on Variable Air Volume (VAV) Fans	Yes	52,120	14.8	0	\$7,300	\$33,212	\$10,800	\$22,412	3.1	52,485
Electric	Unitary HVAC Measures		1,022	0.5	0	\$143	\$2,244	\$276	\$1,968	13.8	1,029
ECM 5	Install High Efficiency Air Conditioning Units	No	1,022	0.5	0	\$143	\$2,244	\$276	\$1,968	13.8	1,029
Domesti	ic Water Heating Upgrade		0	0.0	3	\$31	\$22	\$22	\$0	0.0	333
ECM 6	Install Low-Flow DHW Devices	Yes	0	0.0	3	\$31	\$22	\$22	\$0	0.0	333
Food Se	rvice & Refrigeration Measures		1,551	0.2	0	\$217	\$460	\$100	\$360	1.7	1,562
ECM 7	Vending Machine Control	Yes	1,551	0.2	0	\$217	\$460	\$100	\$360	1.7	1,562
	TOTALS (COST EFFECTIVE MEASURES)		86,447	26.4	-4	\$12,062	\$50,663	\$16,230	\$34,433	2.9	86,568
	TOTALS (ALL MEASURES)		87,469	26.9	-4	\$12,205	\$52,907	\$16,506	\$36,402	3.0	87,597

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



SENIOR CENTER

	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 (Ibs)
Lighting	Upgrades		10,248	4.0	-2	\$1,370	\$6,000	\$2,884	\$3,116	2.3	10,064
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	599	0.2	0	\$80	\$409	\$110	\$299	3.7	588
ECM 2	Retrofit Fixtures with LED Lamps	Yes	9,649	3.8	-2	\$1,290	\$5,591	\$2,774	\$2,817	2.2	9,476
Lighting	Control Measures		3,206	1.2	-1	\$429	\$3,990	\$660	\$3,330	7.8	3,151
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	3,092	1.2	-1	\$413	\$3,590	\$660	\$2,930	7.1	3,036
ECM 4	Install Photocell Controls	No	114	0.0	0	\$16	\$400	\$0	\$400	25.7	115
Variable	Frequency Drive (VFD) Measures		1,863	0.6	0	\$254	\$3,261	\$200	\$3,061	12.1	1,876
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	1,863	0.6	0	\$254	\$3,261	\$200	\$3,061	12.1	1,876
Electric	Unitary HVAC Measures		5,651	3.9	0	\$770	\$57,605	\$7,462	\$50,143	65.1	5,690
ECM 6	Install High Efficiency Air Conditioning Units	No	4,787	3.3	0	\$652	\$51,687	\$6,818	\$44,869	68.8	4,820
ECM 7	Install High Efficiency Heat Pumps	No	864	0.6	0	\$118	\$5,918	\$644	\$5,274	44.8	870
	TOTALS (COST EFFECTIVE MEASURES)		15,203	5.8	-3	\$2,037	\$12,851	\$3,744	\$9,107	4.5	14,976
	TOTALS (ALL MEASURES)		20,968	9.8	-3	\$2,823	\$70,856	\$11,206	\$59,650	21.1	20,782

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



RICHARD C. CLEMENT LAW ENFORCEMENT CENTER

*	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 (Ibs)
Lighting	Upgrades		241,633	40.2	-51	\$29,607	\$58,448	\$25,644	\$32,804	1.1	237,352
ECM 1	Install LED Fixtures	Yes	5,448	1.0	-1	\$672	\$2,377	\$160	\$2,217	3.3	5,399
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,418	0.4	0	\$174	\$481	\$140	\$341	2.0	1,393
ECM 3	Retrofit Fixtures with LED Lamps	Yes	234,766	38.8	-50	\$28,761	\$55,590	\$25,344	\$30,246	1.1	230,561
Lighting	Control Measures		69,237	10.0	-13	\$8,497	\$46,011	\$16,510	\$29,501	3.5	68,160
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	52,636	8.5	-10	\$6,463	\$38,586	\$9,355	\$29,231	4.5	51,856
ECM 5	Install High/Low Lighting Controls	Yes	16,601	1.6	-4	\$2,034	\$7,425	\$7,155	\$270	0.1	16,303
Variable	Frequency Drive (VFD) Measures		181,177	33.1	0	\$22,609	\$102,282	\$26,950	\$75,332	3.3	182,443
ECM 6	Install VFD on Variable Air Volume (VAV) Fans	Yes	135,972	25.5	0	\$16,968	\$71,277	\$18,600	\$52,677	3.1	136,923
ECM 7	Install VFDs on Constant Volume (CV) Fans	Yes	26,349	5.6	0	\$3,288	\$16,152	\$5,800	\$10,352	3.1	26,533
ECM 8	Install VFDs on Chilled Water Pumps	Yes	11,756	1.6	0	\$1,467	\$5,321	\$2,000	\$3,321	2.3	11,839
ECM 9	Install VFDs on Heating Water Pumps	Yes	7,099	0.5	0	\$886	\$9,532	\$550	\$8,982	10.1	7,149
Electric	Unitary HVAC Measures		3,511	1.1	0	\$438	\$11,345	\$920	\$10,425	23.8	3,536
ECM 10	Install High Efficiency Heat Pumps	No	3,511	1.1	0	\$438	\$11,345	\$920	\$10,425	23.8	3,536
Electric	Chiller Replacement		11,786	6.1	0	\$1,471	\$82,504	\$10,800	\$71,704	48.8	11,869
ECM 11	Install High Efficiency Chillers	No	11,786	6.1	0	\$1,471	\$82,504	\$10,800	\$71,704	48.8	11,869
Domest	ic Water Heating Upgrade		0	0.0	29	\$306	\$251	\$251	\$0	0.0	3,340
ECM 12	Install Low-Flow DHW Devices	Yes	0	0.0	29	\$306	\$251	\$251	\$0	0.0	3,340
Food Se	rvice & Refrigeration Measures		3,163	0.4	0	\$395	\$690	\$200	\$490	1.2	3,185
ECM 13	Vending Machine Control	Yes	3,163	0.4	0	\$395	\$690	\$200	\$490	1.2	3,185
	TOTALS (COST EFFECTIVE MEASURES)		495,210	83.7	-36	\$61,414	\$207,682	\$69,555	\$138,127	2.2	494,480
	TOTALS (ALL MEASURES)		510,507	90.9	-36	\$63,323	\$301,530	\$81,275	\$220,255	3.5	509,885

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

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 (Ibs)
Lighting	Upgrades		6,641	2.4	0	\$897	\$4,354	\$2,210	\$2,144	2.4	6,687
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	370	0.2	0	\$50	\$344	\$100	\$244	4.9	373
ECM 2	Retrofit Fixtures with LED Lamps	Yes	6,271	2.2	0	\$847	\$4,010	\$2,110	\$1,900	2.2	6,315
Lighting	Control Measures		1,862	0.6	0	\$251	\$3,742	\$780	\$2,962	11.8	1,875
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	1,862	0.6	0	\$251	\$3,742	\$780	\$2,962	11.8	1,875
	TOTALS (COST EFFECTIVE MEASURES)		8,503	3.0	0	\$1,148	\$8,096	\$2,990	\$5,106	4.4	8,562
	TOTALS (ALL MEASURES)		8,503	3.0	0	\$1,148	\$8,096	\$2,990	\$5,106	4.4	8,562

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



RIVERWOOD 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)**	CO2e Emissions Reduction (Ibs)
Lighting	Upgrades		1,998	0.7	0	\$296	\$1,224	\$440	\$784	2.6	1,963
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,593	0.5	0	\$236	\$901	\$280	\$621	2.6	1,564
ECM 2	Retrofit Fixtures with LED Lamps	Yes	406	0.2	0	\$60	\$323	\$160	\$163	2.7	398
Lighting	Control Measures		2,478	0.8	-1	\$368	\$2,662	\$420	\$2,242	6.1	2,434
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	2,478	0.8	-1	\$368	\$2,662	\$420	\$2,242	6.1	2,434
Electric	Unitary HVAC Measures		108	0.3	0	\$16	\$1,089	\$0	\$1,089	66.8	109
ECM 4	Install High Efficiency Air Conditioning Units	No	108	0.3	0	\$16	\$1,089	\$0	\$1,089	66.8	109
Domest	ic Water Heating Upgrade		164	0.0	1	\$41	\$50	\$50	\$0	0.0	328
ECM 5	Install Low-Flow DHW Devices	Yes	164	0.0	1	\$41	\$50	\$50	\$0	0.0	328
	TOTALS (COST EFFECTIVE MEASURES)		4,640	1.5	0	\$705	\$3,936	\$910	\$3,026	4.3	4,724
	TOTALS (ALL MEASURES)		4,748	1.8	0	\$721	\$5,025	\$910	\$4,115	5.7	4,833

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



YOUTH CENTER

#	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 (Ibs)
Lighting	Upgrades		6,605	2.3	-1	\$994	\$3,256	\$1,730	\$1,526	1.5	6,494
ECM 1	Retrofit Fixtures with LED Lamps	Yes	6,605	2.3	-1	\$994	\$3,256	\$1,730	\$1,526	1.5	6,494
Lighting	Control Measures		1,749	0.6	0	\$263	\$1,428	\$280	\$1,148	4.4	1,718
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	1,749	0.6	0	\$263	\$1,428	\$280	\$1,148	4.4	1,718
Electric	Unitary HVAC Measures		1,150	0.8	0	\$176	\$7,481	\$920	\$6,561	37.4	1,158
ECM 3	Install High Efficiency Air Conditioning Units	No	1,150	0.8	0	\$176	\$7,481	\$920	\$6,561	37.4	1,158
	TOTALS (COST EFFECTIVE MEASURES)		8,355	2.9	-2	\$1,257	\$4,684	\$2,010	\$2,674	2.1	8,212
	TOTALS (ALL MEASURES)		9,504	3.7	-2	\$1,432	\$12,165	\$2,930	\$9,235	6.4	9,370

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



ANIMAL FACILITY

	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 _z e Emissions Reduction (Ibs)
Lighting	Upgrades		10,914	2.4	-2	\$1,412	\$7,036	\$1,834	\$5,202	3.7	10,742
ECM 1	Retrofit Fixtures with LED Lamps	Yes	10,914	2.4	-2	\$1,412	\$7,036	\$1,834	\$5,202	3.7	10,742
Lighting	Control Measures		1,242	0.2	0	\$160	\$618	\$190	\$428	2.7	1,220
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	1,242	0.2	0	\$160	\$618	\$190	\$428	2.7	1,220
Domest	ic Water Heating Upgrade		0	0.0	5	\$57	\$72	\$72	\$0	0.0	556
ECM 3	Install Low-Flow DHW Devices	Yes	0	0.0	5	\$57	\$72	\$72	\$0	0.0	556
	TOTALS (COST EFFECTIVE MEASURES)		12,157	2.6	2	\$1,629	\$7,725	\$2,096	\$5,630	3.5	12,518
	TOTALS (ALL MEASURES)		12,157	2.6	2	\$1,629	\$7,725	\$2,096	\$5,630	3.5	12,518

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



BEY LEY GOLF COURSE

	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		38,657	4.8	-8	\$5,089	\$12,147	\$3,918	\$8,229	1.6	37,938
ECM 1	Install LED Fixtures	Yes	1,927	0.0	0	\$260	\$2,389	\$0	\$2,389	9.2	1,941
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	13,322	1.8	-3	\$1,751	\$3,728	\$1,160	\$2,568	1.5	13,056
ECM 3	Retrofit Fixtures with LED Lamps	Yes	23,373	3.0	-5	\$3,073	\$5,885	\$2,758	\$3,127	1.0	22,907
ECM 4	Install LED Exit Signs	No	35	0.0	0	\$5	\$145	\$0	\$145	31.4	34
Lighting	Control Measures		13,098	1.6	-3	\$1,722	\$8,146	\$1,650	\$6,496	3.8	12,838
ECM 5	Install Occupancy Sensor Lighting Controls	Yes	13,069	1.6	-3	\$1,718	\$7,946	\$1,650	\$6,296	3.7	12,808
ECM 6	Install Photocell Controls	No	30	0.0	0	\$4	\$200	\$0	\$200	50.0	30
Motor U	pgrades		214	0.0	0	\$29	\$352	\$0	\$352	12.2	216
ECM 7	Premium Efficiency Motors	Yes	214	0.0	0	\$29	\$352	\$0	\$352	12.2	216
Electric	Jnitary HVAC Measures		1,162	0.4	0	\$157	\$9,454	\$767	\$8,687	55.4	1,170
ECM 8	Install High Efficiency Heat Pumps	No	1,162	0.4	0	\$157	\$9,454	\$767	\$8,687	55.4	1,170
Domesti	c Water Heating Upgrade		556	0.0	1	\$83	\$36	\$36	\$0	0.0	625
ECM 9	Install Low-Flow DHW Devices	Yes	556	0.0	1	\$83	\$36	\$36	\$0	0.0	625
Food Se	rvice & Refrigeration Measures		630	0.1	0	\$85	\$4,124	\$100	\$4,024	47.4	634
ECM 10	Replace Refrigeration Equipment	No	630	0.1	0	\$85	\$4,124	\$100	\$4,024	47.4	634
	TOTALS (COST EFFECTIVE MEASURES)		52,461	6.4	-11	\$6,914	\$20,336	\$5,604	\$14,733	2.1	51,553
	TOTALS (ALL MEASURES)		54,317	6.9	-11	\$7,165	\$34,259	\$6,471	\$27,788	3.9	53,421

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

J. MARK MUTTER RECORDS CENTER

	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)**	CO2e Emissions Reduction (Ibs)
Lighting	Upgrades		343	0.1	0	\$58	\$301	\$54	\$247	4.3	345
ECM 1	Retrofit Fixtures with LED Lamps	Yes	343	0.1	0	\$58	\$301	\$54	\$247	4.3	345
Lighting	Control Measures		329	0.1	0	\$55	\$926	\$0	\$926	16.9	323
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	329	0.1	0	\$55	\$926	\$0	\$926	16.9	323
	TOTALS (COST EFFECTIVE MEASURES)		673	0.2	0	\$112	\$1,227	\$54	\$1,173	10.4	668
	TOTALS (ALL MEASURES)		673	0.2	0	\$112	\$1,227	\$54	\$1,173	10.4	668

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



VETERANS PARK 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 _z e Emissions Reduction (Ibs)
Lighting Upgrades			12,360	0.8	0	\$3,942	\$29,900	\$664	\$29,236	7.4	12,405
ECM 1	Install LED Fixtures	Yes	10,777	0.0	0	\$3,441	\$28,668	\$0	\$28,668	8.3	10,853
ECM 2	Retrofit Fixtures with LED Lamps	Yes	1,582	0.8	0	\$501	\$1,232	\$664	\$568	1.1	1,553
Lighting Control Measures			405	0.2	0	\$128	\$1,196	\$280	\$916	7.1	397
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	405	0.2	0	\$128	\$1,196	\$280	\$916	7.1	397
Domestic Water Heating Upgrade			0	0.0	0	\$2	\$7	\$4	\$3	1.3	23
ECM 4	Install Low-Flow DHW Devices	Yes	0	0.0	0	\$2	\$7	\$4	\$3	1.3	23
TOTALS (COST EFFECTIVE MEASURES)			12,765	1.0	0	\$4,072	\$31,103	\$948	\$30,155	7.4	12,825
TOTALS (ALL MEASURES)		12,765	1.0	0	\$4,072	\$31,103	\$948	\$30,155	7.4	12,825	

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



HUDDY PARK RESTROOMS

	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 (Ibs)
Lighting Upgrades			2,324	0.3	0	\$339	\$2,450	\$300	\$2,150	6.3	2,340
ECM 1	Install LED Fixtures	Yes	1,506	0.0	0	\$220	\$1,975	\$40	\$1,935	8.8	1,517
ECM 2	Retrofit Fixtures with LED Lamps	Yes	818	0.3	0	\$119	\$475	\$260	\$215	1.8	823
Lighting	Control Measures		223	0.1	0	\$32	\$1,042	\$290	\$752	23.2	224
ECM 3	Install Occupancy Sensor Lighting Controls	No	223	0.1	0	\$32	\$1,042	\$290	\$752	23.2	224
Domestic Water Heating Upgrade			278	0.0	0	\$41	\$22	\$18	\$3	0.1	280
ECM 4	Install Low-Flow DHW Devices	Yes	278	0.0	0	\$41	\$22	\$18	\$3	0.1	280
TOTALS (COST EFFECTIVE MEASURES)		2,602	0.3	0	\$379	\$2,471	\$318	\$2,153	5.7	2,620	
	TOTALS (ALL MEASURES)		2,825	0.4	0	\$412	\$3,513	\$608	\$2,905	7.1	2,844

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



PUBLIC BEACH HOUSE RESTROOMS

	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)**	CO2e Emissions Reduction (Ibs)
Lighting Upgrades			2,459	0.2	0	\$409	\$15,157	\$1,724	\$13,433	32.9	2,476
ECM 1	Install LED Fixtures	No	1,998	0.0	0	\$332	\$14,889	\$1,600	\$13,289	40.0	2,012
ECM 2	Retrofit Fixtures with LED Lamps	Yes	462	0.2	0	\$77	\$268	\$124	\$144	1.9	465
Lighting Control Measures			13	0.0	0	\$2	\$232	\$0	\$232	109.7	13
ECM 3	Install Occupancy Sensor Lighting Controls	No	13	0.0	0	\$2	\$232	\$0	\$232	109.7	13
Motor L	Ipgrades		108	0.0	0	\$18	\$912	\$0	\$912	50.7	109
ECM 4	Premium Efficiency Motors	No	108	0.0	0	\$18	\$912	\$0	\$912	50.7	109
Domestic Water Heating Upgrade			164	0.0	0	\$27	\$14	\$14	\$0	0.0	165
ECM 5	Install Low-Flow DHW Devices	Yes	164	0.0	0	\$27	\$14	\$14	\$0	0.0	165
TOTALS (COST EFFECTIVE MEASURES)		625	0.2	0	\$104	\$282	\$138	\$144	1.4	629	
TOTALS (ALL MEASURES)		2,744	0.2	0	\$456	\$16,315	\$1,738	\$14,576	32.0	2,763	

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



LORD HOUSE LIFEGUARD 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 (Ibs)
Lighting Upgrades			2,393	0.7	0	\$388	\$1,326	\$684	\$642	1.7	2,410
ECM 1	Retrofit Fixtures with LED Lamps	Yes	2,393	0.7	0	\$388	\$1,326	\$684	\$642	1.7	2,410
Lighting	Control Measures		665	0.6	0	\$108	\$3,086	\$670	\$2,416	22.4	670
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	665	0.6	0	\$108	\$3,086	\$670	\$2,416	22.4	670
Domest	ic Water Heating Upgrade		196	0.0	0	\$32	\$29	\$22	\$6	0.2	198
ECM 3	Install Low-Flow DHW Devices	Yes	196	0.0	0	\$32	\$29	\$22	\$6	0.2	198
TOTALS (COST EFFECTIVE MEASURES)		3,255	1.3	0	\$528	\$4,441	\$1,376	\$3,064	5.8	3,278	
TOTALS (ALL MEASURES)		3,255	1.3	0	\$528	\$4,441	\$1,376	\$3,064	5.8	3,278	

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



WINDING RIVER PARK – ICE RINKS

	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 (Ibs)
Lighting Upgrades			40,529	6.0	-8	\$4,526	\$8,886	\$3,446	\$5,440	1.2	39,877
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	8,619	1.4	-2	\$961	\$2,319	\$620	\$1,699	1.8	8,464
ECM 2	Retrofit Fixtures with LED Lamps	Yes	31,910	4.5	-6	\$3,565	\$6,567	\$2,826	\$3,741	1.0	31,413
Lighting	Control Measures		33,441	4.5	-7	\$3,734	\$18,412	\$3,905	\$14,507	3.9	32,894
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	32,724	4.3	-7	\$3,654	\$17,512	\$3,470	\$14,042	3.8	32,190
ECM 4	Install High/Low Lighting Controls	Yes	716	0.1	0	\$80	\$900	\$435	\$465	5.8	703
Variable Frequency Drive (VFD) Measures			184,466	25.0	30	\$21,321	\$80,413	\$20,800	\$59,613	2.8	189,256
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	83,884	13.2	0	\$9,548	\$26,030	\$7,600	\$18,430	1.9	84,471
ECM 6	Install VFDs on Chilled Water Pumps	Yes	60,777	9.3	0	\$6,918	\$21,690	\$5,600	\$16,090	2.3	61,202
ECM 7	Install VFDs on Heating Water Pumps	Yes	27,791	2.7	0	\$3,163	\$20,848	\$5,000	\$15,848	5.0	27,986
ECM 8	Install VFDs on Cooling Tower Fans	No	1,740	-0.2	0	\$198	\$7,768	\$800	\$6,968	35.2	1,752
ECM 9	Install VFDs on Kitchen Hood Fan Motors	Yes	10,273	0.0	30	\$1,494	\$4,076	\$1,800	\$2,276	1.5	13,846
Electric	Chiller Replacement		58,273	20.5	0	\$6,633	\$118,167	\$21,600	\$96,567	14.6	58,680
ECM 10	Install High Efficiency Chillers	Yes	58,273	20.5	0	\$6,633	\$118,167	\$21,600	\$96,567	14.6	58,680
Domest	ic Water Heating Upgrade		1,425	0.0	14	\$318	\$1,533	\$640	\$893	2.8	3,114
ECM 11	Install Low-Flow DHW Devices	Yes	1,425	0.0	14	\$318	\$1,533	\$640	\$893	2.8	3,114
Food Se	rvice & Refrigeration Measures		4,141	0.5	0	\$471	\$1,172	\$450	\$722	1.5	4,170
ECM 12	Refrigeration Controls	Yes	172	0.0	0	\$20	\$252	\$150	\$102	5.2	173
ECM 13	Vending Machine Control	Yes	3,969	0.5	0	\$452	\$920	\$300	\$620	1.4	3,997
	TOTALS (COST EFFECTIVE MEASURES)		320,533	56.6	30	\$36,806	\$220,815	\$50,041	\$170,774	4.6	326,239
TOTALS (ALL MEASURES)		322,273	56.4	30	\$37,004	\$228,583	\$50,841	\$177,742	4.8	327,991	

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

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



MEASURES FOR FUTURE CONSIDERATION

- Retro-Commissioning Study
- Pool System Upgrades
- Upgrade to a Heat Pump System



SOLAR ENERGY GENERATION POTENTIAL

	Public Works Complex	Law Enforcement Center	Bey Lea Golf Course	Winding River Park, Ice Rinks
Potential:	HIGH	HIGH	HIGH	HIGH
System Potential: (kW)	128	240	78	500
Electric Generation: (kWh per year)	152,495	285,929	92,927	595,685
Displaced Cost: (per year)	\$21,360	\$35,680	\$12,540	\$67,800

Transition Incentive (TI) Program:

https://www.njcleanenergy.com/renewableenergy/programs/transition-incentive-program



Community Solar Energy Pilot Program:

http://www.NJCleanEnergy.com/ CommunitySolar

CLEAN ENERGY PROGRAM PORTFOLIO

ELIGIBLE SECTORS

INCENTIVE PROGRAMS

OTHER PROGRAMS



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

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 – Fuel Cells

Renewable Energy Generation:

- Transition Incentive (TI) Program
- Community Solar

RECOMMENDED NJCEP INCENTIVES PER BUILDING

Toms River Township	P4P	Direct Install	SS	CTEEP		Toms River Township	P4P	Direct Install	SS	СТЕЕР
Municipal Complex		х	x	Х		Animal Facility		Х	Х	Х
Public Works Complex		X	х	х		Bey Lea Golf Course		Х	Х	Х
Senior Center		х	х	х		J. Mark Mutter Records Center		Х	Х	Х
Richard C. Clement Law Enforcement Center	X	х	х	х		Veterans Park Bldg.		х	Х	Х
Recreation Building		X	х	Х		Public Beach House Restrooms		х	X	Х
Riverwood Park		х	x	Х		Lord House Lifeguard Station		X	Х	Х
Youth Center		Х	х	Х		Winding River Park – Ice Rinks	Х		X	Х

*Some sites with only lighting upgrades will need further assessment for DI 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. Buildings are marked with a lighter X.

*Buildings marked with a lighter X do not quite meet the requirements of the current P4P program. P4P should be evaluated again once project planning is underway.



PAY FOR PERFORMANCE

NJCleanEnergy.com/P4P

What is P4P: Comprehensive, whole-building approach to saving energy in existing or new facilities.



- Qualifications: Annual peak demand 200 kW+ in the previous year for existing buildings
- About:Customer choose from a network of pre-approved ParticipatingPartners

Incentives: Incentives paid in <u>three</u> installments

- Up to \$2MM per project((\$4MM entity cap/year)
 - \$1 million for electric measures
 - \$1 million for gas measures
- Up to 50% of project cost (or <u>80%</u> for UEZ/OZ/<u>Local Govt.</u>/ K-12 Public Schools) up to \$2MM per project / \$4MM per entity annually



PAY FOR PERFORMANCE

NJCleanEnergy.com/P4P





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 (<u>\$250K</u> UEZ/OZ/ Local Govt./K-12 Public Schools), or
 - \$250,000 entity cap (<u>\$4MM</u> UEZ/OZ/Local Govt./K-12 Public Schools)



DIRECT INSTALL

NJCleanEnergy.com/DI

Facilities in Urban Enterprise Zones (UEZ), Opportunity Zones (OZ), Local Governments, 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





Participating Contractor

Hutchinson Mechanical Services Pete Hatton 856-429-5828 x259 petehatton@hutchbiz.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 <u>all</u> 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-down to 1 year payback based on incremental cost and savings



SMARTSTART

NJCleanEnergy.com/SSB



PRESCRIPTIVE INCENTIVES

- Electric Chillers
- Gas Cooling
- Electric Unitary HVAC
- Ground Source Heat Pumps
- Gas Heating
- Variable Frequency Drives
- Gas Water Heating
- Lighting/Lighting Controls
- Refrigeration Doors
- Refrigeration Controls
- Food Service Equipment
- Refrigerator/Freezer Motors



DOUBLE INCENTIVES

for OZ/UEZ, local government (munis & counties), K-12 public school, or designated as affordable housing



- New or innovative technologies proven to be cost-effective and not listed as prescriptive
- Must meet code for retrofit projects or exceed code for new construction
- 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:

- Up to \$500,000 for each electric or gas account
- Technical assistance incentives for custom project evaluation (up to \$10K)

SAME INCENTIVE VALUES AS SMARTSTART



CTEEP: CUSTOMER TAILORED ENERGY EFFICIENCY PILOT

NJCleanEnergy.com/CTEEF

program"



DIRECT INSTALL, SMARTSTART & CTEEP: FINANCING OPTION

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



• Questions? Contact:

Jerry Ryan

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



LOCAL GOVERNMENT FLEETS

Electric vehicles are now included in the State Purchasing Contract!

- New NJBPU Grant Program
 - Designed to encourage local governments to add EVs to their fleet
 - \$4000 per battery electric vehicle
 - \$1500 for one Level-Two EV charging station
 - Grants awarded on rolling basis until June 2021 or until funding expended

Questions? EV.programs@bpu.nj.gov



FINANCING MECHANISM: ESIP

ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- Provides alternative financing for energy savings projects at public institutions
- Administered directly by the NJBPU
- Project is paid for with the value of its own energy savings
- 15 or 20-year repayment term
- NJCEP incentives/rebates are layered within an ESIP
- No upfront capital expenses



FINANCING MECHANISM: ESIP



Rew Jersey's Cleanenergy

Program

ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

FOR MORE INFORMATION

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FOR MORE INFORMATION

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QUESTIONS



