

New Jersey's Clean Energy Program

LGEA Exit Meeting for: Berlin Borough

TRC Energy Services

May 6, 2019

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Introductions



Berlin Borough

- Debra DiMattia CFO
- William Behnke Borough Administrator
- Mike Buchanan Councilman
- Len Badolato Councilman

NJ Clean Energy Program

- Brian DeLuca, CEM TRC Program Manager
- Sarah Walters TRC Account Manager
- Gary Finger TRC Outreach 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 Berlin Borough

LGEA Process



Application Approval

Scheduling Call

Audit

Benchmarking & Analysis

Draft Report

Exit Meeting Presentation

Final Report

Site Visit and Utility Analysis



Overview of Systems, Baseline & Existing Conditions:

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

Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs

Sites Visited/Analyzed

- Borough Hall/Police
- Fire Department
- Community Center
- Library
- Senior Center
- DPW Office & Well #9
- DPW Plant #2 & Well #11
- Well #12, Well #14, & Water Tank

Benchmarking







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	119,899	31.7	-21.0	\$20,938	\$55,218	\$9,878	\$45,340	2.2	118,273
Install LED Fixtures	18,208	2.7	0.0	\$3,323	\$15,258	\$1,300	\$13,958	4.2	18,335
Retrofit Fluorescent Fixtures with LED Lamps and Drivers	9,302	2.2	-2.0	\$1,465	\$3,559	\$545	\$3,014	2.1	9,131
Retrofit Fixtures with LED Lamps	92,112	26.8	-19.0	\$16,103	\$36,257	\$8,033	\$28,224	1.8	90,535
Install LED Exit Signs	277	0.0	-0.1	\$47	\$145	\$0	\$145	3.1	272
Lighting Control Measures	23,102	5.7	-4.9	\$3, 9 55	\$17,200	\$1,552	\$15,648	4.0	22,687
Install Occupancy Sensor Lighting Controls	16,508	4.6	-3.5	\$2,814	\$12,990	\$1,552	\$11,438	4.1	16,212
Install High/Low Lighting Controls	6,594	1.1	-1.4	\$1,141	\$4,210	\$0	\$4,210	3.7	6,475
Motor Upgrades	705	0.2	0.0	\$125	\$3,913	\$0	\$3,913	31.3	710
Premium Efficiency Motors	705	0.2	0.0	\$125	\$3,913	\$0	\$3,913	31.3	710
Variable Frequency Drive (VFD) Measures	5,485	0.6	0.0	\$942	\$6,015	\$0	\$6,015	6.4	5,523
Install VFDs on Heating Water Pumps	5,485	0.6	0.0	\$942	\$6,015	\$0	\$6,015	6.4	5,523
Electric Unitary HVAC Measures	3,026	4.4	0.0	\$524	\$42,642	\$2,622	\$40,020	76.4	3,047
Install High Efficiency Air Conditioning Units	3,026	4.4	0.0	\$524	\$42,642	\$2,622	\$40,020	76.4	3,047
Gas Heating (HVAC/Process) Replacement	0	0.0	45.5	\$491	\$16,265	\$1,492	\$14,773	30.1	5,332
Install High Efficiency Hot Water Boilers	0	0.0	36.3	\$362	\$14,000	\$1,092	\$12,908	35.7	4,245
Install High Efficiency Furnaces	0	0.0	9.3	\$129	\$2,266	\$400	\$1,866	14.5	1,087
HVAC System Improvements	124	0.0	6.9	\$107	\$330	\$0	\$330	3.1	933
Install Programmable Thermostats	124	0.0	6.9	\$107	\$330	\$0	\$330	3.1	933
Domestic Water Heating Upgrade	2,012	0.0	23.4	\$634	\$72	\$0	\$72	0.1	4,771
Install Low-Flow DHW Devices	2,012	0.0	23.4	\$634	\$72	\$0	\$72	0.1	4,771
Plug Load Equipment Control - Vending Machine	1,612	0.2	0.0	\$284	\$230	\$0	\$230	0.8	1,623
Vending Machine Control	1,612	0.2	0.0	\$284	\$230	\$0	\$230	0.8	1,623
TOTALS	155,964	42.8	49.9	\$28,001	\$141,885	\$15,544	\$126,341	4.5	162,900

Cost Effective Opportunities*



* Opportunities considered cost effective have a payback period less than 2/3rds of the useful life of the measure

Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades	119,899	31.7	-21.0	\$20,938	\$55,218	\$9,878	\$45,340	2.2	118,273
ECM 1 Install LED Fixtures	18,208	2.7	0.0	\$3,323	\$15,258	\$1,300	\$13,958	4.2	18,335
ECM 2 Retrofit Fluorescent Fixtures with LED Lamps and Drivers	9,302	2.2	-2.0	\$1,465	\$3,559	\$545	\$3,014	2.1	9,131
ECM 3 Retrofit Fixtures with LED Lamps	92,112	26.8	-19.0	\$16,103	\$36,257	\$8,033	\$28,224	1.8	90,535
ECM 4 Install LED Exit Signs	277	0.0	-0.1	\$47	\$145	\$0	\$145	3.1	272
Lighting Control Measures	22,930	5.5	-4.9	\$3,923	\$15,530	\$1,517	\$14,013	3.6	22,519
ECM 5 Install Occupancy Sensor Lighting Controls	16,468	4.6	-3.5	\$2,806	\$12,520	\$1,517	\$11,003	3.9	16,173
ECM 6 Install High/Low Lighting Controls	6,462	1.0	-1.4	\$1,117	\$3,010	\$0	\$3,010	2.7	6,346
Variable Frequency Drive (VFD) Measures	5,485	0.6	0.0	\$942	\$6,015	\$0	\$6,015	6.4	5,523
ECM 7 Install VFDs on Heating Water Pumps	5,485	0.6	0.0	\$942	\$6,015	\$0	\$6,015	6.4	5,523
HVAC System Improvements	124	0.0	6.9	\$107	\$330	\$0	\$330	3.1	933
ECM 8 Install Programmable Thermostats	124	0.0	6.9	\$107	\$330	\$0	\$330	3.1	933
Domestic Water Heating Upgrade	2,012	0.0	23.4	\$634	\$72	\$0	\$72	0.1	4,771
ECM 9 Install Low-Flow DHW Devices	2,012	0.0	23.4	\$634	\$72	\$0	\$72	0.1	4,771
Plug Load Equipment Control - Vending Machine	1,612	0.2	0.0	\$284	\$230	\$0	\$230	0.8	1,623
ECM 10 Vending Machine Control	1,612	0.2	0.0	\$284	\$230	\$0	\$230	0.8	1,623
TOTALS	152,061	38.0	4.4	\$26,829	\$77,395	\$11,395	\$66,000	2.5	153,643



Borough Hall & Police

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Lifetime Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (Ibs)
Lightin	g Upgrades	63,510	10.3	-13	\$10,786	\$161,787	\$21,525	\$3,935	\$17,590	1.6	62,487
ECM 1	Install LED Fixtures	3,672	0.6	0	\$631	\$9,463	\$3,864	\$400	\$3,464	5.5	3,698
ECM 2	Retrofit Fixtures with LED Lamps	59,561	9.7	-12	\$10,108	\$151,619	\$17,516	\$3,535	\$13,981	1.4	58,517
ECM 3	Install LED Exit Signs	277	0.0	0	\$47	\$705	\$145	\$0	\$145	3.1	272
Lightin	g Control Measures	15,688	2.5	-3	\$2,662	\$21,295	\$8,324	\$840	\$7,484	2.8	15,407
ECM 4	Install Occupancy Sensor Lighting Controls	10,086	2.0	-2	\$1,711	\$13,690	\$6,524	\$840	\$5,684	3.3	9,905
ECM 5	Install High/Low Lighting Controls	5,602	0.5	-1	\$951	\$7,605	\$1,800	\$0	\$1,800	1.9	5,502
Motor	Upgrades	607	0.2	0	\$104	\$1,564	\$1,610	\$0	\$1,610	15.4	611
	Premium Efficiency Motors	607	0.2	0	\$104	\$1,564	\$1,610	\$0	\$1,610	15.4	611
Variab	le Frequency Drive (VFD) Measures	5,485	0.6	0	\$942	\$14,135	\$6,015	\$0	\$6,015	6.4	5,523
ECM 6	Install VFDs on Heating Water Pumps	5,485	0.6	0	\$942	\$14,135	\$6,015	\$0	\$6,015	6.4	5,523
Gas He	eating (HVAC/Process) Replacement	0	0.0	36	\$362	\$7,241	\$14,000	\$1,092	\$12,908	35.7	4,245
	Install High Efficiency Hot Water Boilers	0	0.0	36	\$362	\$7,241	\$14,000	\$1,092	\$12,908	35.7	4,245
	TOTALS	85,291	13.6	20	\$14,856	\$206,021	\$51,473	\$5,867	\$45,606	3.1	88,273

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

Fire Department



#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Deman d Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Lifetime Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Paybac k Period (yrs)**	CO ₂ e Emissions Reduction (Ibs)
Lightin	g Upgrades	11,855	5.4	-2	\$2,479	\$37,190	\$7,862	\$1,818	\$6,044	2.4	11,667
ECM 1	Install LED Fixtures	964	0.1	0	\$203	\$3,050	\$966	\$100	\$866	4.3	970
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	314	0.4	0	\$66	\$986	\$599	\$90	\$509	7.7	309
ECM 3	Retrofit Fixtures with LED Lamps	10,577	4.9	-2	\$2,210	\$33,154	\$6,297	\$1,628	\$4,669	2.1	10,388
Lightin	g Control Measures	1,807	1.2	0	\$378	\$3,021	\$3,642	\$315	\$3,327	8.8	1,775
ECM 4	Install Occupancy Sensor Lighting Controls	1,597	1.2	0	\$334	\$2,669	\$3,242	\$315	\$2,927	8.8	1,568
ECM 5	Install High/Low Lighting Controls	211	0.0	0	\$44	\$352	\$400	\$0	\$400	9.1	207
Motor	Upgrades	98	0.1	0	\$21	\$311	\$2,303	\$0	\$2,303	111.2	99
	Premium Efficiency Motors	98	0.1	0	\$21	\$311	\$2,303	\$0	\$2,303	111.2	99
Domes	tic Water Heating Upgrade	0	0.0	23	\$223	\$2,227	\$50	\$0	\$50	0.2	2,745
ECM 6	Install Low-Flow DHW Devices	0	0.0	23	\$223	\$2,227	\$50	\$0	\$50	0.2	2,745
	TOTALS	13,760	6.7	21	\$3,100	\$42,749	\$13,857	\$2,133	\$11,724	3.8	16,286

* - All incentives presented in this table are based on NJ SmartStart equipment incentives and assume proposed equipment meets minimum performance criteria for that prc ** - Simple Payback Period is based on net measure costs (i.e. after incentives).

Community Center



#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Deman d Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Lifetime Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Paybac k Period (yrs)**	CO₂e Emissions Reduction (Ibs)
Lightin	g Upgrades	18,421	8.6	-2	\$3,228	\$48,420	\$7,955	\$1,428	\$6,527	2.0	18,335
ECM 1	Install LED Fixtures	8,918	1.3	0	\$1,574	\$23,606	\$2,700	\$0	\$2,700	1.7	8,980
ECM 2	Retrofit Fixtures with LED Lamps	9,503	7.2	-2	\$1,654	\$24,814	\$5,255	\$1,428	\$3,827	2.3	9,354
Lightin	g Control Measures	922	0.7	0	\$160	\$1,282	\$1,440	\$117	\$1,323	8.3	905
ECM 3	Install Occupancy Sensor Lighting Controls	614	0.5	0	\$107	\$855	\$900	\$117	\$783	7.3	603
ECM 4	Install High/Low Lighting Controls	307	0.2	0	\$53	\$427	\$540	\$0	\$540	10.1	302
Electric	: Unitary HVAC Measures	1,114	0.9	0	\$197	\$2,950	\$19,451	\$1,196	\$18,255	92.8	1,122
	Install High Efficiency Air Conditioning Units	1,114	0.9	0	\$197	\$2,950	\$19,451	\$1,196	\$18,255	92.8	1,122
Food S	ervice & Refrigeration Measures	1,612	0.2	0	\$284	\$1,422	\$230	\$ 0	\$230	0.8	1,623
ECM 5	Vending Machine Control	1,612	0.2	0	\$284	\$1,422	\$230	\$0	\$230	0.8	1,623
	TOTALS	22,069	10.4	-2	\$3,869	\$54,074	\$29,076	\$2,741	\$26,335	6.8	21,985

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

Library



#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Deman d Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Lifetime Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Paybac k Period (yrs)**	CO₂e Emissions Reduction (Ibs)
Lightin	g Upgrades	2,815	2.6	-1	\$516	\$7,737	\$3,878	\$678	\$3,200	6.2	2,769
ECM 1	Retrofit Fixtures with LED Lamps	2,815	2.6	-1	\$516	\$7,737	\$3,878	\$678	\$3,200	6.2	2,769
Lightin	g Control Measures	171	0.2	0	\$31	\$251	\$1,670	\$35	\$1,635	52.1	168
	Install Occupancy Sensor Lighting Controls	40	0.1	0	\$7	\$58	\$470	\$35	\$435	59.7	39
	Install High/Low Lighting Controls	132	0.1	0	\$24	\$193	\$1,200	\$0	\$1,200	49.8	129
Electric	: Unitary HVAC Measures	1,029	2.9	0	\$191	\$2,862	\$17,955	\$1,104	\$16,851	88.3	1,036
	Install High Efficiency Air Conditioning Units	1,029	2.9	0	\$191	\$2,862	\$17,955	\$1,104	\$16,851	88.3	1,036
	TOTALS	4,015	5.6	-1	\$738	\$10,849	\$23,502	\$1,817	\$21,685	29.4	3,973

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

Senior Center



#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Deman d Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Lifetime Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Paybac k Period (yrs)**	CO ₂ e Emissions Reduction (Ibs)
Lightin	ng Upgrades	2,228	1.1	0	\$450	\$6,749	\$1,362	\$347	\$1,015	2.3	2,193
ECM 1	Retrofit Fixtures with LED Lamps	2,228	1.1	0	\$450	\$6,749	\$1,362	\$347	\$1,015	2.3	2,193
Lightin	g Control Measures	342	0.2	0	\$69	\$551	\$270	\$0	\$270	3.9	336
ECM 2	Install High/Low Lighting Controls	342	0.2	0	\$69	\$551	\$270	\$0	\$270	3.9	336
Gas He	eating (HVAC/Process) Replacement	0	0.0	9	\$129	\$2,580	\$2,266	\$400	\$1,866	14.5	1,087
	Install High Efficiency Furnaces	v 0	0.0	9	\$129	\$2,580	\$2,266	\$400	\$1,866	14.5	1,087
Domes	stic Water Heating Upgrade	2,012	0.0	0	\$412	\$4,116	\$22	\$0	\$22	0.1	2,026
ECM 3	Install Low-Flow DHW Devices	2,012	0.0	0	\$412	\$4,116	\$22	\$0	\$22	0.1	2,026
	TOTALS	4,582	1.2	9	\$1,059	\$13,997	\$3,919	\$747	\$3,172	3.0	5,642

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



DPW Office & Well #9

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Lifetime Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (Ibs)
Lightin	g Upgrades	13,735	1.3	-3	\$2,079	\$31,181	\$2,063	\$381	\$1,682	0.8	13,490
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	7,647	0.7	-2	\$1,157	\$17,359	\$1,158	\$175	\$983	0.8	7,510
ECM 2	Retrofit Fixtures with LED Lamps	6,089	0.6	-1	\$922	\$13,823	\$906	\$206	\$700	0.8	5,980
Lightin	g Control Measures	3,045	0.3	-1	\$461	\$3,686	\$966	\$155	\$811	1.8	2,990
ECM 3	Install Occupancy Sensor Lighting Controls	3,045	0.3	-1	\$461	\$3,686	\$966	\$155	\$811	1.8	2,990
Electri	c Unitary HVAC Measures	883	0.6	0	\$137	\$2,049	\$5,237	\$322	\$4,915	36.0	889
	Install High Efficiency Air Conditioning Units	883	0.6	0	\$137	\$2,049	\$5,237	\$322	\$4,915	36.0	889
	TOTALS	17,663	2.2	-4	\$2,676	\$36,917	\$8,266	\$858	\$7,408	2.8	17,369

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



DPW Plant #2 & Well #11

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Lifetime Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (Ibs)
Lightin	g Upgrades	3,274	1.4	0	\$692	\$10,377	\$4,621	\$626	\$3,995	5.8	3,276
ECM 1	Install LED Fixtures	2,707	0.4	0	\$574	\$8,606	\$2,898	\$300	\$2,598	4.5	2,726
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	306	0.5	0	\$64	\$955	\$839	\$140	\$699	11.0	297
ECM 3	Retrofit Fixtures with LED Lamps	261	0.4	0	\$54	\$816	\$885	\$186	\$699	12.8	254
HVAC	System Improvements	124	0.0	7	\$107	\$1,177	\$330	\$0	\$330	3.1	933
ECM 4	Install Programmable Thermostats	124	0.0	7	\$107	\$1,177	\$330	\$0	\$330	3.1	933
	TOTALS	3,398	1.4	7	\$799	\$11,555	\$4,951	\$626	\$4,325	5.4	4,209

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



Well #12, Well #14, & Water Tank

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Lifetime Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO _z e Emissions Reduction (Ibs)
Lighting	Upgrades	4,060	1.1	0	\$708	\$10,624	\$5,952	\$665	\$5,287	7.5	4,058
ECM 1	Install LED Fixtures	1,947	0.3	0	\$342	\$5,125	\$4,830	\$500	\$4,330	12.7	1,961
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	1,035	0.6	0	\$178	\$2,672	\$963	\$140	\$823	4.6	1,016
ECM 3	Retrofit Fixtures with LED Lamps	1,078	0.2	0	\$188	\$2,827	\$159	\$25	\$134	0.7	1,080
Lighting	Control Measures	1,127	0.6	0	\$194	\$1,552	\$888	\$90	\$798	4.1	1,106
ECM 4	Install Occupancy Sensor Lighting Controls	1,127	0.6	0	\$194	\$1,552	\$888	\$90	\$798	4.1	1,106
	TOTALS	5,186	1.7	0	\$902	\$12,176	\$6,840	\$755	\$6,085	6.7	5,164

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



Solar Energy Generation Potential 🖤

Borough Hal	l / Police
Potential:	HIGH
System Potential: (kW)	52
Electric Generation: (kWh per year)	61,951
Displaced Cost: (per year)	\$10,640

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

http://www.njcleanenergy.com/renewable-energy/programs/solar-renewable-energy-certificates-srec/newjersey-solar-renewable-energy

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







Berlin Borough	Direct Install	SmartStart	CTEEP
Borough Hall/Police	Х	Х	Х
Fire Department	Х	Х	Х
Community Center	Х	Х	Х
Library	х	Х	х
Senior Center	х	Х	Х
DPW Office & Well #9	Х	Х	Х
DPW Plant #2 & Well #11	Х	Х	Х
Well #12, Well #14, & Water Tank	х	Х	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

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
- Participating contractors provide support and process all paperwork
- Fast turnaround time: Average length of time for job completion (4-6 months)
- www.NJCleanEnergy/DI

Direct Install:



Participating Contractor

Hutchinson Mechanical Services Pete Hatton 856-429-5828 x259 petehatton@hutchbiz.com





The State of NJ pays:

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

South Jersey Gas will finance:

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







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 lighting and custom measures
- Incentives up to \$500,000 per electric account & \$500,000 per natural gas account
- Specific incentives and individual applications for Lighting, HVAC, VFDs, Refrigeration, Controls and more!

www.NJCleanEnergy/SSB



CTEEP: Overview

Customer Tailored Energy Efficiency Pilot (CTEEP)

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



SmartStart & CTEEP:



Financing Option

- 0% Financing
- Up to \$130,000 for 10 years
- SJG can help guide you through the process

Contact:

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South Jersey Gas

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Folsom, NJ 08037

Phone: 609-561-9000, ext. 4271







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

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