



LGEA Presentation Casino Reinvestment & Development Authority

November 18, 2021

New Jersey's Clean Energy Program

Lighting the way to New Jersey's Clean Energy Future

INTRODUCTIONS

- Casino Reinvestment & Development Authority
 - Thomas Meehan Director of Project Implementation & Management
 - Eric Carrier Project Development Officer
 - Elizabeth Daley Project Development Officer
 - Clark Hughes Capital Projects/Procurement Manager (Spectra)
 - Kevin Blankenbuehler Energy & Engineering Project Manager (Concord)
- NJ Clean Energy Program
 - Brian DeLuca TRC Director
 - Sarah Walters LGEA Project Manager
 - Moussa Traore LGEA Lead Auditor
 - Greg Reinert Outreach Account Manager, ACE
 - Arif Welcher Government/Business Manager (BPU)



Agenda

- The audit process overview
- Energy use & existing conditions
- Review of Energy Conservation Measures (ECMs) identified & other recommendations
- Energy Savings Improvement Program (ESIP)
- C&I Transition of EE Programs
- ACE Energy Efficiency Programs
- Questions regarding the draft audit report
- Next steps for CRDA



LGEA PROCESS



- Application Approval
- Initial Call
- Facility Interviews
- Audit
- Benchmarking & Analysis
- **Draft Reports**
- LGEA Presentation
- Final Reports

SITE VISIT & UTILITY ANALYSIS

Overview of Systems, Baseline & Existing Conditions:

- Lighting System
- HVAC and Mechanical Systems
- Plug Load Equipment
- Cooking & Refrigeration Equipment

Utility Consumption:

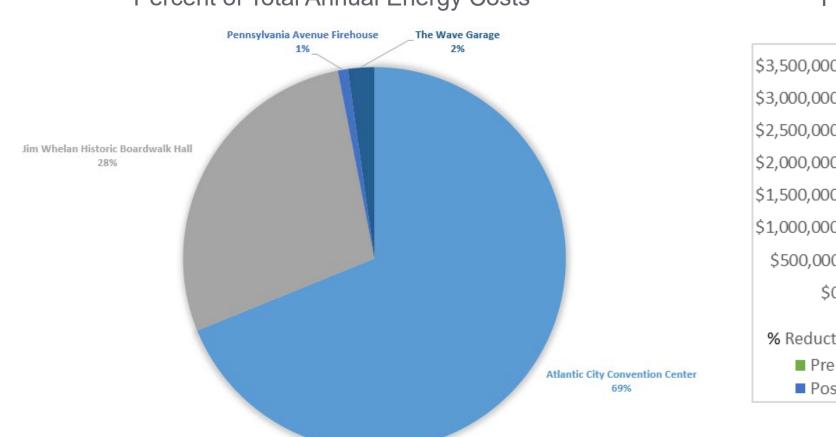
- Electric Consumption and Costs
- Natural Gas Consumption and Costs
- Solar Consumption and Costs
- Chilled Water, Hot Water, & Steam Consumptions and Costs



Sites Visited/Analyzed

- Atlantic City Convention Center
- Jim Whelan Historic Boardwalk Hall
- Pennsylvania Ave Firehouse (Admin Offices)
- The Wave Garage

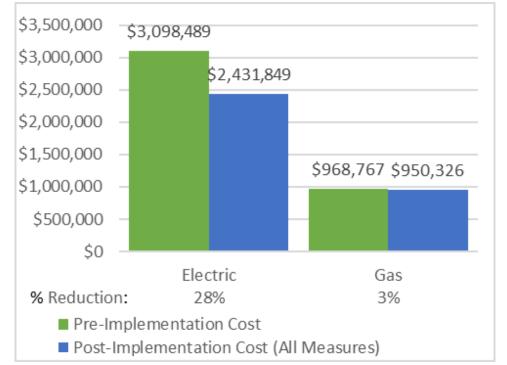
UTILITY BREAKOUT



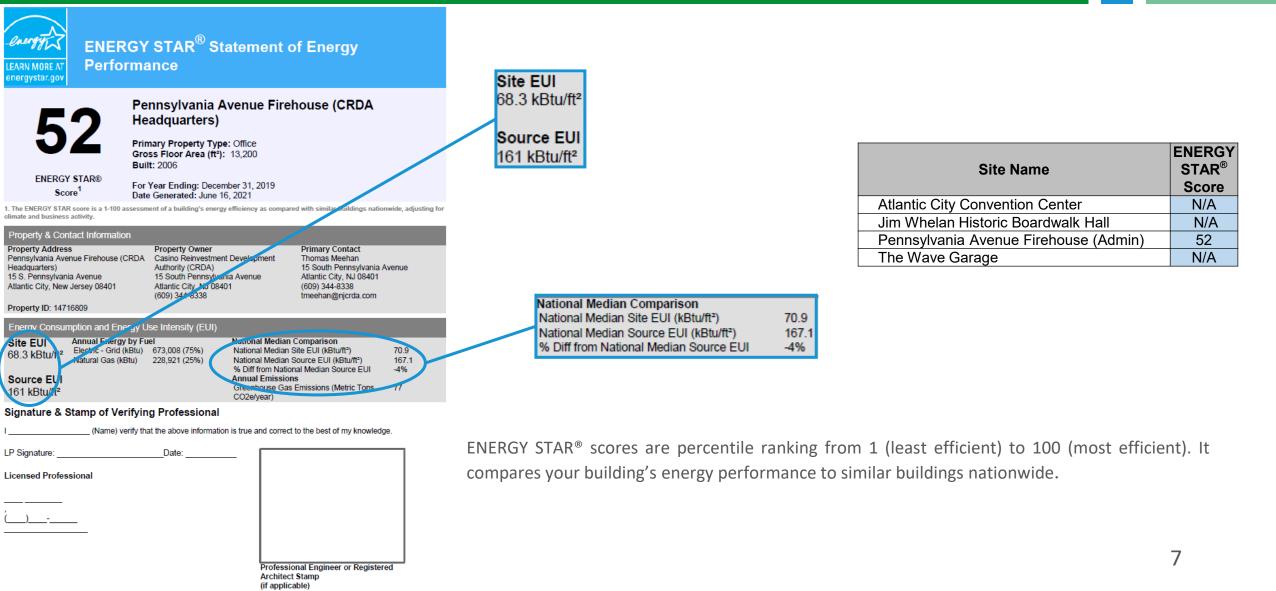
Percent of Total Annual Energy Costs



Pre & Post Implementation Cost



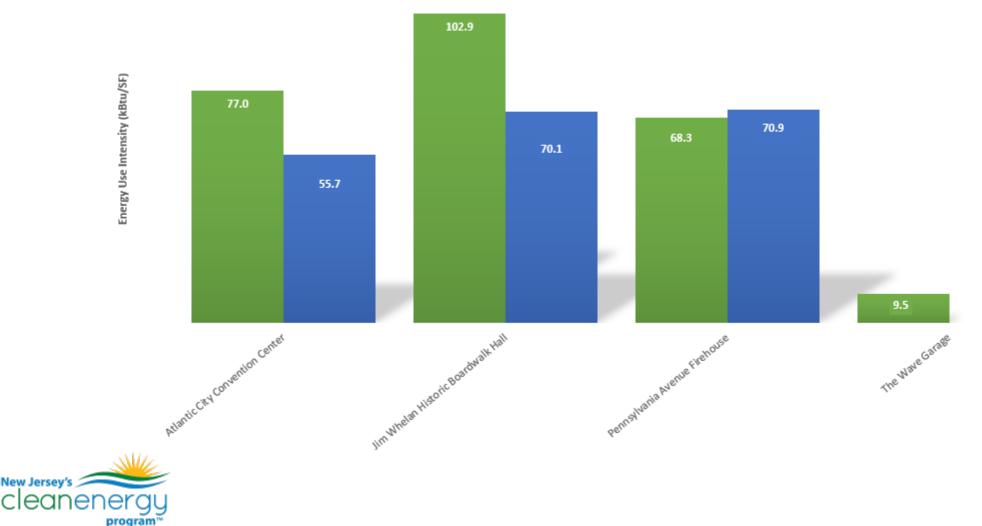
Benchmarking



Benchmarking

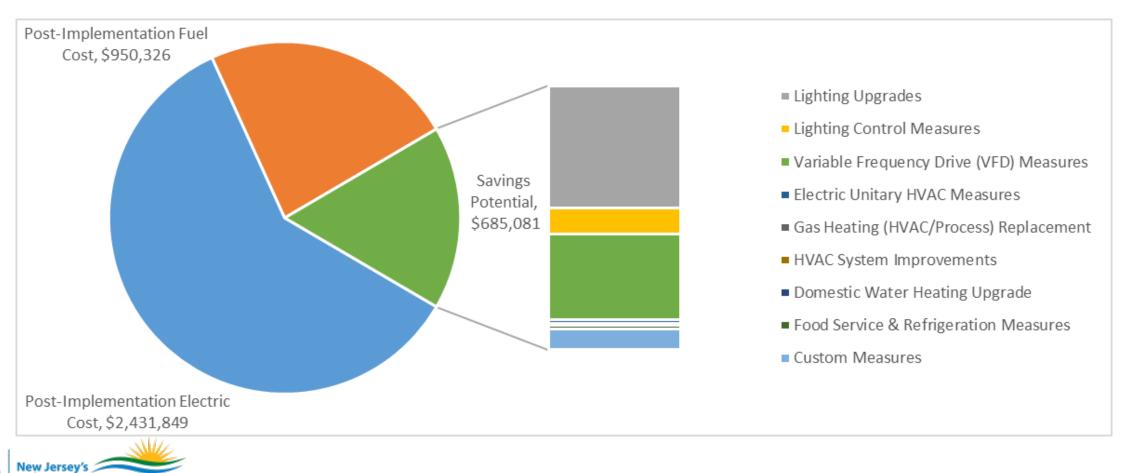
Site Energy Use Intensity (kBtu/SF)

National Median Energy Use Intensity (kBtu/SF)



ALL OPPORTUNITIES

Savings Potential



ALL OPPORTUNITIES

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO2e Emissions Reduction (Ibs)
Lighting	Upgrades	3,619,869	797.4	-692.3	\$316,366	\$1,202,980	\$152,217	\$1,050,763	3.3	3,564,121
ECM 1	Install LED Fixtures	1,452,454	208.3	-255.1	\$123,573	\$449,258	\$29,075	\$420,183	3.4	1,432,745
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	510,727	162.3	-108.8	\$46,817	\$296,366	\$39,880	\$256 <i>,</i> 486	5.5	501,563
ECM 3	Retrofit Fixtures with LED Lamps	1,654,303	426.6	-328.0	\$145,729	\$456,342	\$83,262	\$373 <i>,</i> 080	2.6	1,627,471
ECM 4	Install LED Exit Signs	2,384	0.2	-0.5	\$247	\$1,014	\$0	\$1,014	4.1	2,341
Lighting	Control Measures	730,515	131.9	-142.1	\$68,505	\$429,200	\$223,415	\$205,785	3.0	718,980
ECM 5	Install Occupancy Sensor Lighting Controls	199,601	56.8	-42.1	\$19,756	\$215,000	\$26,625	\$188,375	9.5	196,068
ECM 6	Install High/Low Lighting Controls	530,914	75.0	-100.0	\$48,748	\$214,200	\$196,790	\$17,410	0.4	522,912
Variable	Frequency Drive (VFD) Measures	2,167,471	941.7	129.1	\$220,805	\$1,401,717	\$224,425	\$1,177,292	5.3	2,197,743
ECM 7	Install VFDs on Constant Volume (CV) Fans	2,094,684	932.7	12.6	\$212,892	\$1,351,696	\$218,350	\$1,133,346	5.3	2,110,804
ECM 8	Install VFDs on Kitchen Hood Fan Motors	21,779	0.3	116.5	\$3 <i>,</i> 588	\$16,380	\$1,575	\$14,805	4.1	35,572
ECM 9	Install VFDs on Water Supply Pump	51,009	8.6	0.0	\$4,325	\$33,641	\$4,500	\$29,141	6.7	51,366
Electric U	Jnitary HVAC Measures	118,917	89.3	14.6	\$10,721	\$747,316	\$43,478	\$703,839	65.6	121,455
ECM 10	Install High Efficiency Air Conditioning Units	102,186	78.2	14.6	\$9,343	\$693,966	\$43,378	\$650 <i>,</i> 589	69.6	104,607
ECM 11	Install High Efficiency Heat Pumps	16,731	11.1	0.0	\$1,378	\$53 <i>,</i> 350	\$100	\$53,250	38.6	16,848
Gas Heat	ting (HVAC/Process) Replacement	0	0.0	14.0	\$165	\$7,587	\$500	\$7,087	42.9	1,642
ECM 12	Install High Efficiency Furnaces	0	0.0	14.0	\$165	\$7,587	\$500	\$7,087	42.9	1,642

ALL OPPORTUNITIES

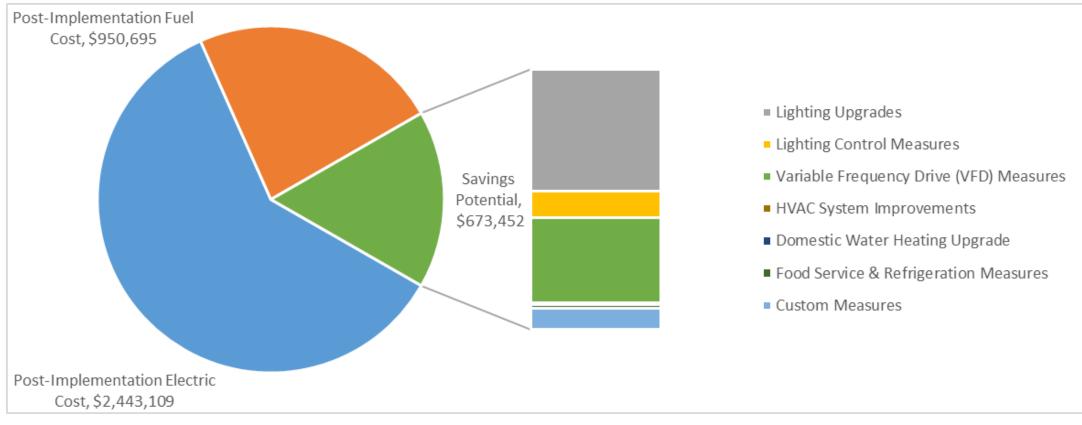
#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)		Emissions Reduction
HVAC Sy	ystem Improvements	4,718	0.0	0.0	\$400	\$329	\$114	\$215	0.5	4,751
ECM 13	Install Pipe Insulation	4,718	0.0	0.0	\$400	\$329	\$114	\$215	0.5	4,751
Domest	ic Water Heating Upgrade	15,292	0.0	130.9	\$3,233	\$3,419	\$1,014	\$2,405	0.7	30,725
ECM 14	Install Low-Flow DHW Devices	15,292	0.0	130.9	\$3,233	\$3,419	\$1,014	\$2,405	0.7	30,725
Food Se	rvice & Refrigeration Measures	106,404	9.4	0.0	\$10,675	\$98,194	\$5,525	\$92,669	8.7	107,148
ECM 15	Refrigerator/Freezer Case Electrically Commutated Motors	12,844	1.6	0.0	\$1,295	\$12,132	\$1,600	\$10,532	8.1	12,934
ECM 16	Refrigeration Controls	30,026	0.6	0.0	\$3 <i>,</i> 047	\$38,548	\$2 <i>,</i> 075	\$36,473	12.0	30,236
ECM 17	Replace Refrigeration Equipment	41,773	4.8	0.0	\$4 <i>,</i> 453	\$44,294	\$1,150	\$43,144	9.7	42,065
ECM 18	Vending Machine Control	21,760	2.5	0.0	\$1,880	\$3,220	\$700	\$2,520	1.3	21,912
Custom	Measures	264,521	0.0	1,890.0	\$54,210	\$283,028	\$0	\$283,028	5.2	487,666
ECM 19	Retro-Commissioning Study	264,521	0.0	1,890.0	\$54,210	\$283,028	\$0	\$283,028	5.2	487,666
	TOTALS	7,027,708	1,969.7	1,344.2	\$685,081	\$4,173,770	\$650,688	\$3,523,082	5.1	7,234,230

* - All incentives presented in this table are included as placesholders and are based on previously run state rebate programs. Contact your utility provider for details on current programs



COST EFFECTIVE OPPORTUNITIES

Savings Potential





COST EFFECTIVE OPPORTUNITIES

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)		CO2e Emissions Reduction (Ibs)
Lighting	Upgrades	3,619,869	797.4	-692.3	\$316,366	\$1,202,980	\$152,217	\$1,050,763	3.3	3,564,121
ECM 1	Install LED Fixtures	1,452,454	208.3	-255.1	\$123,573	\$449,258	\$29,075	\$420,183	3.4	1,432,745
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	510,727	162.3	-108.8	\$46,817	\$296,366	\$39,880	\$256,486	5.5	501,563
	Retrofit Fixtures with LED Lamps	1,654,303	426.6	-328.0	\$145,729	\$456,342	\$83,262	\$373 <i>,</i> 080	2.6	1,627,471
ECM 4	Install LED Exit Signs	2,384	0.2	-0.5	\$247	\$1,014	\$0	\$1,014	4.1	2,341
Lighting	Control Measures	728,604	131.4	-142.1	\$68,360	\$425,542	\$222,900	\$202,642	3.0	717,055
ECM 5	Install Occupancy Sensor Lighting Controls	197,690	56.4	-42.1	\$19,612	\$211,342	\$26,110	\$185,232	9.4	194,143
ECM 6	Install High/Low Lighting Controls	530,914	75.0	-100.0	\$48,748	\$214,200	\$196,790	\$17,410	0.4	522,912
Variable	Frequency Drive (VFD) Measures	2,167,471	941.7	129.1	\$220,805	\$1,401,717	\$224,425	\$1,177,292	5.3	2,197,743
ECM 7	Install VFDs on Constant Volume (CV) Fans	2,094,684	932.7	12.6	\$212,892	\$1,351,696	\$218,350	\$1,133,346	5.3	2,110,804
ECM 8	Install VFDs on Kitchen Hood Fan Motors	21,779	0.3	116.5	\$3 <i>,</i> 588	\$16,380	\$1,575	\$14,805	4.1	35,572
ECM 9	Install VFDs on Water Supply Pump	51,009	8.6	0.0	\$4,325	\$33,641	\$4,500	\$29,141	6.7	51,366
HVAC Sy	stem Improvements	4,718	0.0	0.0	\$400	\$329	\$114	\$215	0.5	4,751
ECM 13	Install Pipe Insulation	4,718	0.0	0.0	\$400	\$329	\$114	\$215	0.5	4,751
Domesti	c Water Heating Upgrade	15,292	0.0	130.9	\$3,233	\$3,419	\$1,014	\$2,405	0.7	30,725
ECM 14	Install Low-Flow DHW Devices	15,292	0.0	130.9	\$3,233	\$3,419	\$1,014	\$2,405	0.7	30,725
Food Ser	vice & Refrigeration Measures	99,357	9.2	0.0	\$10,078	\$85,038	\$4,775	\$80,263	8.0	100,052
ECM 15	Refrigerator/Freezer Case Electrically Commutated Motors	12,844	1.6	0.0	\$1,295	\$12,132	\$1,600	\$10,532	8.1	12,934
ECM 16	Refrigeration Controls	22,980	0.4	0.0	\$2,450	\$25,392	\$1,325	\$24,067	9.8	23,141
ECM 17	Replace Refrigeration Equipment	41,773	4.8	0.0	\$4,453	\$44,294	\$1,150	\$43,144	9.7	42,065
ECM 18	Vending Machine Control	21,760	2.5	0.0	\$1,880	\$3,220	\$700	\$2,520	1.3	21,912
Custom	Measures	264,521	0.0	1,890.0	\$54,210	\$283,028	\$0	\$283,028	5.2	487,666
ECM 19	Retro-Commissioning Study	264,521	0.0	1,890.0	\$54,210	\$283,028	\$0	\$283 <i>,</i> 028	5.2	487,666
	TOTALS	6,899,833	1,879.8	1,315.6	\$673,452	\$3,402,053	\$605,445	\$2,796,608	4.2	7,102,112

* - All incentives presented in this table are included as placesholders and are based on previously run state rebate programs. Contact your utility provider for details on current programs

ATLANTIC CITY CONVENTION CENTER

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (Ibs)
Lighting	Upgrades		2 ,691,784	609.9	-529	\$221,979	\$768,563	\$88,420	\$680,143	3.1	2,648,661
ECM 1	Install LED Fixtures	Yes	1,262,176	183.8	-228	\$104,324	\$321,505	\$16,545	\$304,960	2.9	1,244,318
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	286,494	111.5	-61	\$23,570	\$200,037	\$27,615	\$172,422	7.3	281,353
ECM 3	Retrofit Fixtures with LED Lamps	Yes	1,143,114	314.6	-240	\$94,085	\$247,022	\$44,260	\$202,762	2.2	1,122,991
Lighting	Control Measures		272,523	50.2	-58	\$22,421	\$193,758	\$123,370	\$70,388	3.1	267,633
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	58,176	20.4	-12	\$4,786	\$74,958	\$8,645	\$66,313	13.9	57,132
ECM 5	Install High/Low Lighting Controls	Yes	214,346	29.9	-46	\$17,635	\$118,800	\$114,725	\$4,075	0.2	210,500
Variable	Frequency Drive (VFD) Measures		578,850	227.9	66	\$49,855	\$431,586	\$64,500	\$367,086	7.4	590,640
ECM 6	Install VFDs on Constant Volume (CV) Fans	Yes	517,234	219.0	13	\$44,000	\$386,940	\$59,525	\$327,415	7.4	522,325
ECM 7	Install VFDs on Kitchen Hood Fan Motors	Yes	10,607	0.2	54	\$1,530	\$11,005	\$475	\$10,530	6.9	16,949
ECM 8	Install VFDs on Water Supply Pump	Yes	51,009	8.6	0	\$4,325	\$33,641	\$4,500	\$29,141	6.7	51,366
Unitary	HVAC Measures		105,982	83.2	11	\$9,115	\$670,389	\$40,164	\$630,226	69.1	108,008
ECM 9	Install High Efficiency Air Conditioning Units	No	95,397	74.4	11	\$8,217	\$625,253	\$40,164	\$585,090	71.2	97,349
ECM 10	Install High Efficiency Heat Pumps	No	10,585	8.8	0	\$897	\$45,136	\$0	\$45,136	50.3	10,659
Gas Hea	ting (HVAC/Process) Replacement		0	0.0	14	\$165	\$7,587	\$500	\$7,087	42.9	1,642
ECM 11	Install High Efficiency Furnaces	No	0	0.0	14	\$165	\$7,587	\$500	\$7,087	42.9	1,642
HVAC S	ystem Improvements		4,718	0.0	0	\$400	\$329	\$114	\$215	0.5	4,751
ECM 12	Install Pipe Insulation	Yes	4,718	0.0	0	\$400	\$329	\$114	\$215	0.5	4,751
Domest	ic Water Heating Upgrade		12,790	0.0	13	\$1,242	\$416	\$208	\$208	0.2	14,448
ECM 13	Install Low-Flow DHW Devices	Yes	12,790	0.0	13	\$1,242	\$416	\$208	\$208	0.2	14,448
Food Se	rvice & Refrigeration Measures		30,602	2.9	0	\$2,595	\$20,089	\$1,920	\$18,169	7.0	30,816
ECM 14	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	3,408	0.4	0	\$289	\$3,943	\$520	\$3,423	11.8	3,432
ECM 15	Refrigeration Controls	No	7,047	0.1	0	\$597	\$13,156	\$750	\$12,406	20.8	7,096
ECM 16	Vending Machine Control	Yes	20,148	2.3	0	\$1,708	\$2,990	\$650	\$2,340	1.4	20,289
	TOTALS (COST EFFECTIVE MEASURES)			890.8	-508	\$297,894	\$1,401,585	\$277,782	\$1,123,803	3.8	3,549,853
	TOTALS (ALL MEASURES)		3,697,249	974.1	-483	\$307,772	\$2,092,717	\$319,196	\$1,773,521	5.8	3,666,599

* - All incentives presented in this table are included as placeholders and are based on previously run state rebate programs. Contact your utility provider for details on current programs.

JIM WHELAN HISTORIC BOARDWALK HALL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)		CO ₂ e Emissions Reduction (Ibs)
Lighting	Upgrades		755,647	167.2	-159	\$78,372	\$323,082	\$46,642	\$276,440	3.5	742,361
ECM 1	Install LED Fixtures	Yes	129,504	22.0	-27	\$13,432	\$83,289	\$7,780	\$75,509	5.6	127,228
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	224,234	50.8	-48	\$23,247	\$96,329	\$12,265	\$84,064	3.6	220,210
ECM 3	Retrofit Fixtures with LED Lamps	Yes	399,525	94.2	-83	\$41,446	\$142,450	\$26,597	\$115,853	2.8	392,581
ECM 4	Install LED Exit Signs	Yes	2,384	0.2	-1	\$247	\$1,014	\$0	\$1,014	4.1	2,341
Lighting	Control Measures		387,768	69.9	-83	\$40,201	\$189,016	\$68,205	\$120,811	3.0	380,810
ECM 5	Install Occupancy Sensor Lighting Controls	Yes	132,570	34.1	-28	\$13,744	\$127,816	\$16,305	\$111,511	8.1	130,191
ECM 6	Install High/Low Lighting Controls	Yes	255,199	35.8	-54	\$26,457	\$61,200	\$51,900	\$9,300	0.4	250,619
Variable	Frequency Drive (VFD) Measures		1,574,602	709.8	63	\$168,725	\$942,361	\$159,250	\$783,111	4.6	1,592,985
ECM 7	Install VFDs on Constant Volume (CV) Fans	Yes	1,563,430	709.6	0	\$166,668	\$936,986	\$158,150	\$778,836	4.7	1,574,362
ECM 8	Install VFDs on Kitchen Hood Fan Motors	Yes	11,171	0.1	63	\$2,058	\$5,375	\$1,100	\$4,275	2.1	18,623
Domest	ic Water Heating Upgrade		0	0.0	117	\$1,617	\$2,939	\$770	\$2,169	1.3	13,757
ECM 9	Install Low-Flow DHW Devices	Yes	0	0.0	117	\$1,617	\$2,939	\$770	\$2,169	1.3	13,757
Food Se	rvice & Refrigeration Measures		75,802	6.5	0	\$8,081	\$78,105	\$3,605	\$74,500	9.2	76,332
ECM 10	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	9,437	1.2	0	\$1,006	\$8,189	\$1,080	\$7,109	7.1	9,503
ECM 11	Refrigeration Controls	Yes	22,980	0.4	0	\$2,450	\$25,392	\$1,325	\$24,067	9.8	23,141
ECM 12	Replace Refrigeration Equipment	Yes	41,773	4.8	0	\$4,453	\$44,294	\$1,150	\$43,144	9.7	42,065
ECM 13	Vending Machine Control	Yes	1,612	0.2	0	\$172	\$230	\$50	\$180	1.0	1,623
Custom	Measures		264,521	0.0	1,890	\$54,210	\$283,028	\$0	\$283,028	5.2	487,666
ECM 14	Retro-Commissioning Study	Yes	264,521	0.0	1,890	\$54,210	\$283,028	\$0	\$283,028	5.2	487,666
	TOTALS (COST EFFECTIVE MEASURES)		3,058,340	953.4	1,829	\$351,206	\$1,818,531	\$278,472	\$1,540,059	4.4	3,293,912
TOTALS (ALL MEASURES)			3,058,340	953.4	1,829	\$351,206	\$1,818,531	\$278,472	\$1,540,059	4.4	3,293,912

* - All incentives presented in this table are included as placeholders and are based on previously run state rebate programs. Contact your utility provider for details on current programs.

PENNSYLVANIA AVE FIREHOUSE (ADMIN OFFICES)

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)		CO ₂ e Emissions Reduction (Ibs)
Lighting	Upgrades		36,619	6.1	-5	\$5,746	\$15,902	\$3,294	\$12,608	2.2	36,329
ECM 1	Install LED Fixtures	Yes	14,721	0.0	0	\$2,336	\$6,130	\$1,100	\$5,030	2.2	14,824
ECM 2	Retrofit Fixtures with LED Lamps	Yes	21,898	6.1	-5	\$3,411	\$9,772	\$2,194	\$7,578	2.2	21,505
Lighting	Control Measures		7,151	2.0	-2	\$1,114	\$8,793	\$1,370	\$7,423	6.7	7,023
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	6,944	1.9	-1	\$1,082	\$8,568	\$1,160	\$7,408	6.8	6,820
ECM 4	Install High/Low Lighting Controls	Yes	207	0.1	0	\$32	\$225	\$210	\$15	0.5	203
Variable	Frequency Drive (VFD) Measures		14,019	4.0	0	\$2,224	\$27,770	\$675	\$27,095	12.2	14,117
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	14,019	4.0	0	\$2,224	\$27,770	\$675	\$27,095	12.2	14,117
Unitary	HVAC Measures		6,981	4.3	4	\$1,157	\$70,404	\$3,314	\$67,090	58.0	7,451
ECM 6	Install High Efficiency Air Conditioning Units	No	6,789	3.8	4	\$1,126	\$68,713	\$3,214	\$65,499	58.2	7,258
ECM 7	Install High Efficiency Heat Pumps	No	192	0.6	0	\$30	\$1,691	\$100	\$1,591	52.3	193
Domest	ic Water Heating Upgrade		2,224	0.0	0	\$353	\$57	\$32	\$25	0.1	2,240
ECM 8	Install Low-Flow DHW Devices	Yes	2,224	0.0	0	\$353	\$57	\$32	\$25	0.1	2,240
	TOTALS (COST EFFECTIVE MEASURES)			12.0	-6	\$9,437	\$52,523	\$5,371	\$47,152	5.0	59,709
	TOTALS (ALL MEASURES)		66,995	16.4	-3	\$10,594	\$122,927	\$8,685	\$114,242	10.8	67,160

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THE WAVE GARAGE

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)		CO ₂ e Emissions Reduction (Ibs)
Lighting	Upgrades		135,819	14.3	0	\$10,269	\$95,432	\$13,861	\$81,571	7.9	136,769
ECM 1	Install LED Fixtures	Yes	46,053	2.5	0	\$3,482	\$38,334	\$3,650	\$34,684	10.0	46,375
ECM 2	Retrofit Fixtures with LED Lamps	Yes	89,767	11.8	0	\$6,787	\$57,098	\$10,211	\$46,887	6.9	90,394
Lighting	Control Measures		63,073	9.8	0	\$4,769	\$37,633	\$30,470	\$7,163	1.5	63,514
ECM 3	Install Occupancy Sensor Lighting Controls	No	1,911	0.5	0	\$145	\$3,658	\$515	\$3,143	21.7	1,925
ECM 4	Install High/Low Lighting Controls	Yes	61,162	9.3	0	\$4,624	\$33,975	\$29,955	\$4,020	0.9	61,589
Unitary	HVAC Measures		5,955	1.8	0	\$450	\$6,523	\$0	\$6,523	14.5	5,996
ECM 5	Install High Efficiency Heat Pumps	No	5,955	1.8	0	\$450	\$6,523	\$0	\$6,523	14.5	5,996
Domest	c Water Heating Upgrade		278	0.0	0	\$21	\$7	\$4	\$3	0.2	280
ECM 6	Install Low-Flow DHW Devices	Yes	278	0.0	0	\$21	\$7	\$4	\$3	0.2	280
	TOTALS (COST EFFECTIVE MEASURES)		197,259	23.6	0	\$14,914	\$129,415	\$43,820	\$85,595	5.7	198,638
	TOTALS (ALL MEASURES)		205,125	25.8	0	\$15,509	\$139,595	\$44,335	\$95,260	6.1	206,559

* - All incentives presented in this table are included as placeholders and are based on previously run state rebate programs. Contact your utility provider for details on current programs.

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



SOLAR ENERGY GENERATION POTENTIAL

	Boardwalk Hall
Potential:	HIGH
System Potential: (kW)	1,288
Electric Generation: (kWh per year)	1,534,485
Displaced Cost: (per year)	\$163,580

Successor Solar Incentive Program https://www.njcleanenergy.com/renewableenergy/programs/susi-program



Community Solar Energy Pilot Program

http://www.NJCleanEnergy.com/ CommunitySolar

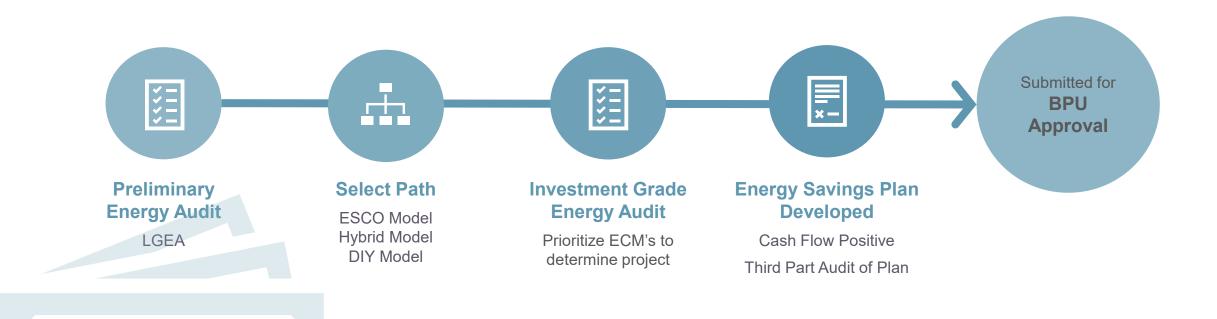
FINANCING MECHANISM: ESIP

ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- Energy Performance Contracting NJ ESIP
- Financing Mechanism that allows state entities to make energy efficiency improvements without impacting their budgets
- Administered by the NJBPU
- Project is paid for with the value of its own energy savings
- 15 or 20 year self-funding loan
- Recent Energy Efficiency Transition
 - NJBPU Approved Incentive Programs
 - Utility or NJCEP
- Can be combined with Federal/State Pandemic Relief Funds
- No upfront capital expenses
- No referendum or impact to tax payers



FINANCING MECHANISM: ESIP





Energy SAVINGS Improvement Program

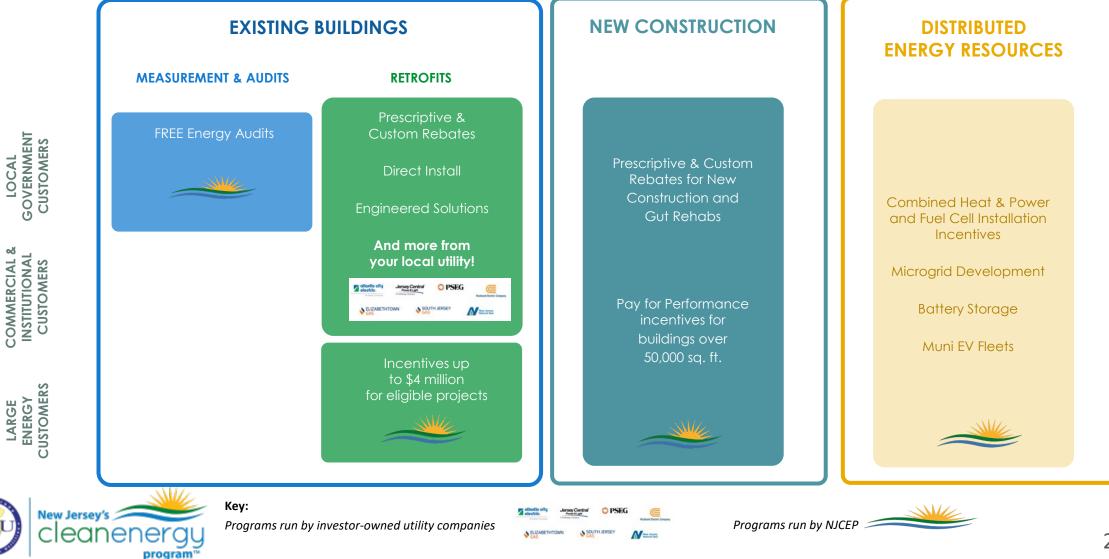
FOR MORE INFORMATION

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C&I TRANSITION OF ENERGY EFFICIENCY PROGRAMS

https://www.njcleanenergy.com/transition



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