

LGEA Presentation Atlantic County

April 23, 2014



New Jersey's Clean Energy Program

Lighting the way to New Jersey's Clean Energy Future

INTRODUCTIONS

- *Atlantic County*
 - Christopher Palermo
 - Robert Reynolds
 - Thomas Brys – Colliers Engineering & Design
 - Rosemary Danback – Colliers Engineering & Design
 - Jordan Derek – Colliers Engineering & Design
 - Tim Kernan – Colliers Engineering & Design
- *Utility Energy Efficiency Programs*
 - Paul Miles – ACE
 - Leigh Cignavitch – ACE
 - Alexander Haver – ACE
 - Kimberly O'Donnell – SJG
 - Kim Byk - SJG
- *NJ Clean Energy Program*
 - Sarah Walters – LGEA Project Manager
 - Eduardo Garcia – LGEA Project Auditor
 - Nick Nocco – LGEA Project Auditor

AGENDA

- The audit process overview
- Energy use & existing conditions
- Review of **E**nergy **C**onservation **M**easures (ECMs) identified & other recommendations
- Energy Savings Improvement Program (ESIP)
- Energy Efficiency Incentive Programs
- Questions regarding the draft audit report
- Next steps for Atlantic County

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:

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

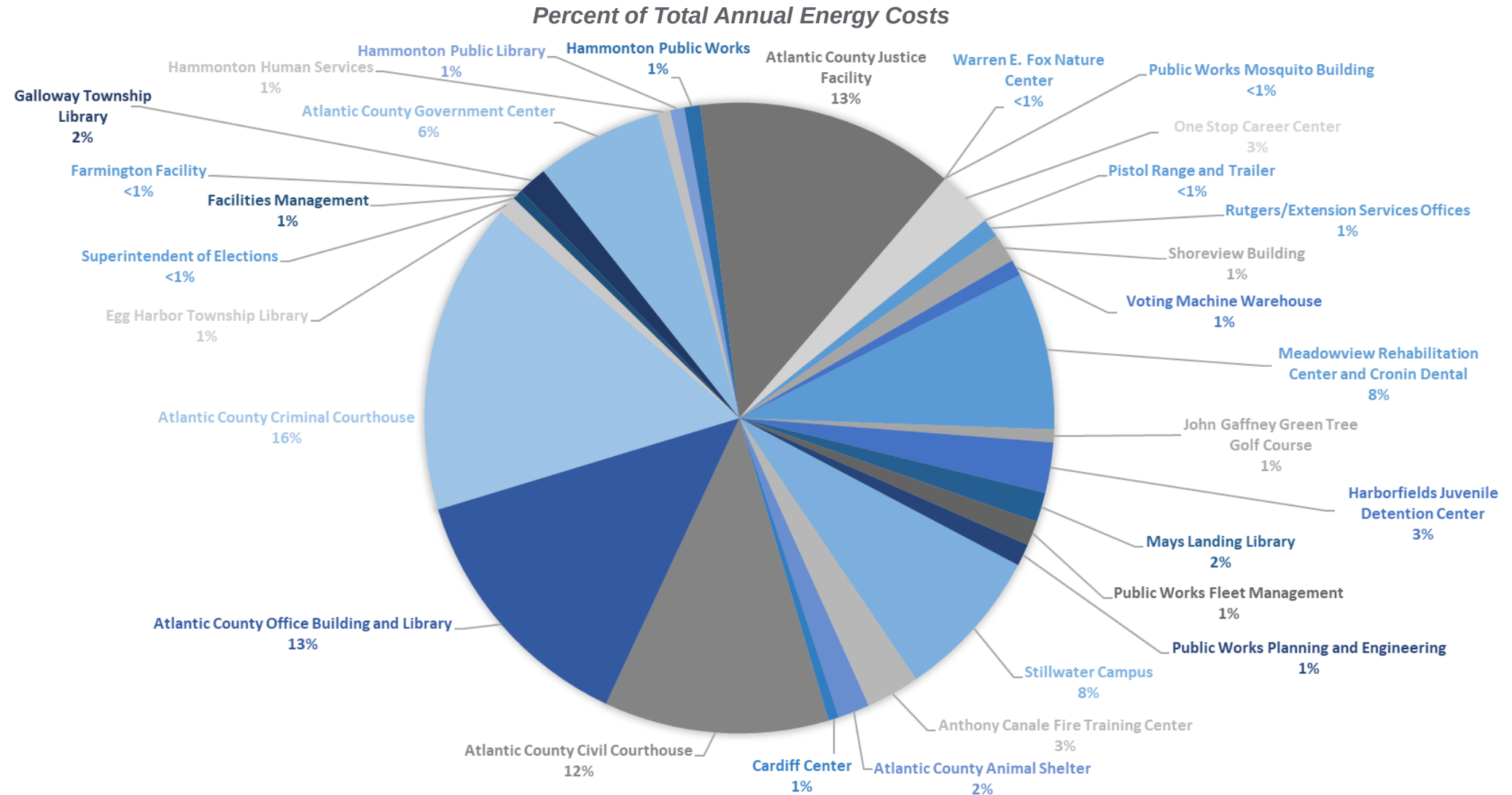
Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs
- Propane Consumption and Costs
- Solar Consumption and Costs

Sites Visited/Analyzed

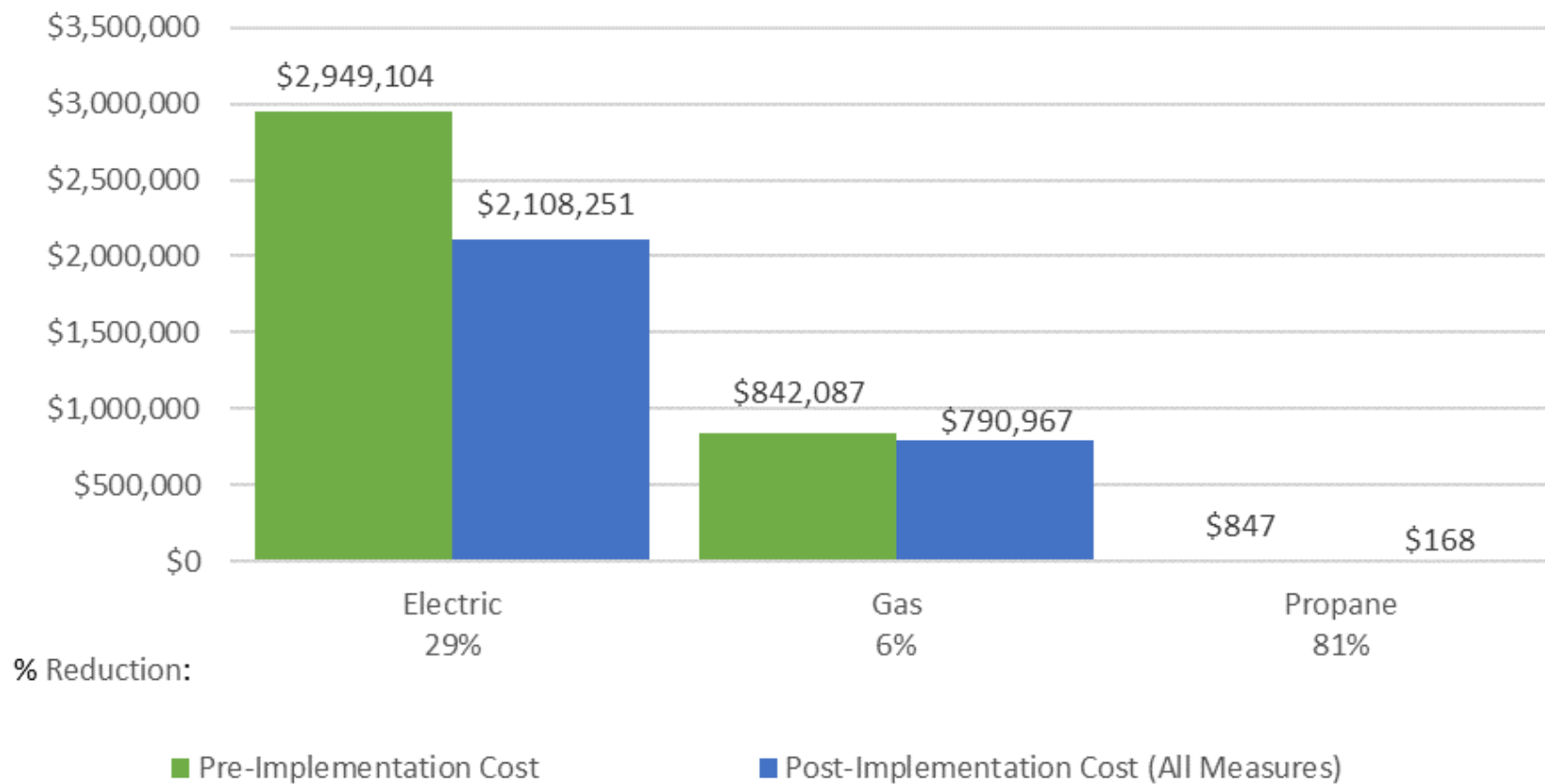
- Atlantic County Animal Shelter
- Atlantic County Civil Courthouse
- Pistol Range & Trailer
- Atlantic County Government Center
- Atlantic County Justice Center Complex
- Atlantic County Office Building
- Anthony Canale Fire Training Center
- Cardiff Center
- Egg Harbor Township Library
- Farmington Facility
- Galloway Township Library
- Hammonton Human Services
- Hammonton Public Library
- Hammonton Public Works
- Harborfields Juvenile Detention Center
- John Gaffney Green Tree Golf Course
- Mays Landing Library
- Meadowview Rehabilitation Center & Cronin Dental
- Public Works Planning & Engineering
- Public Works Fleet Management
- Public Works Mosquito Building
- Rutgers Extension Services Offices
- Shoreview Building
- Stillwater Campus
- Superintendent of Elections
- Facilities Management
- One Stop Career Center
- Voting Machine Warehouse
- Nature Center

UTILITY BREAKOUT



UTILITY BREAKOUT

Pre & Post Implementation Cost



BENCHMARKING



LEARN MORE AT
energystar.gov

ENERGY STAR® Statement of Energy Performance

45

ENERGY STAR® Score¹

Atlantic County Office Building & Library

Primary Property Type: Office

Gross Floor Area (ft²): 170,791

Built: 1985

For Year Ending: February 28, 2022

Date Generated: September 20, 2023

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

Atlantic County Office Building & Library

1333 Atlantic Avenue

Atlantic City, New Jersey 08404

Property Owner

Atlantic County

1227 Drexel Avenue

Atlantic City, NJ 08401

(609) 343-2284

Primary Contact

Jerry Griffin

1227 Drexel Avenue

Atlantic City, NJ 08401

(609) 343-2284

griffin_jerry@aclink.org

Property ID: 25082969

Energy Consumption and Energy Use Intensity (EUI)

Site EUI

102 kBtu/ft²

Annual Energy by Fuel

Electricity (kBtu)

9,645,274 (51%)

Natural Gas (kBtu)

7,767,489 (41%)

Source EUI

205.9 kBtu/ft²

National Median Comparison

National Median Site EUI (kBtu/ft²)

96.3

National Median Source EUI (kBtu/ft²)

194.4

% Diff from National Median Source EUI

6%

Annual Emissions

Total (Location-Based) GHG Emissions

(Metric Tons CO2e/year)

1,279

Signature & Stamp of Verifying Professional

I, _____ (Name) verify that the above information is true and correct to the best of my knowledge.

LP Signature: _____ Date: _____

Licensed Professional

() - _____

Professional Engineer or Registered Architect Stamp

Site EUI
102 kBtu/ft²

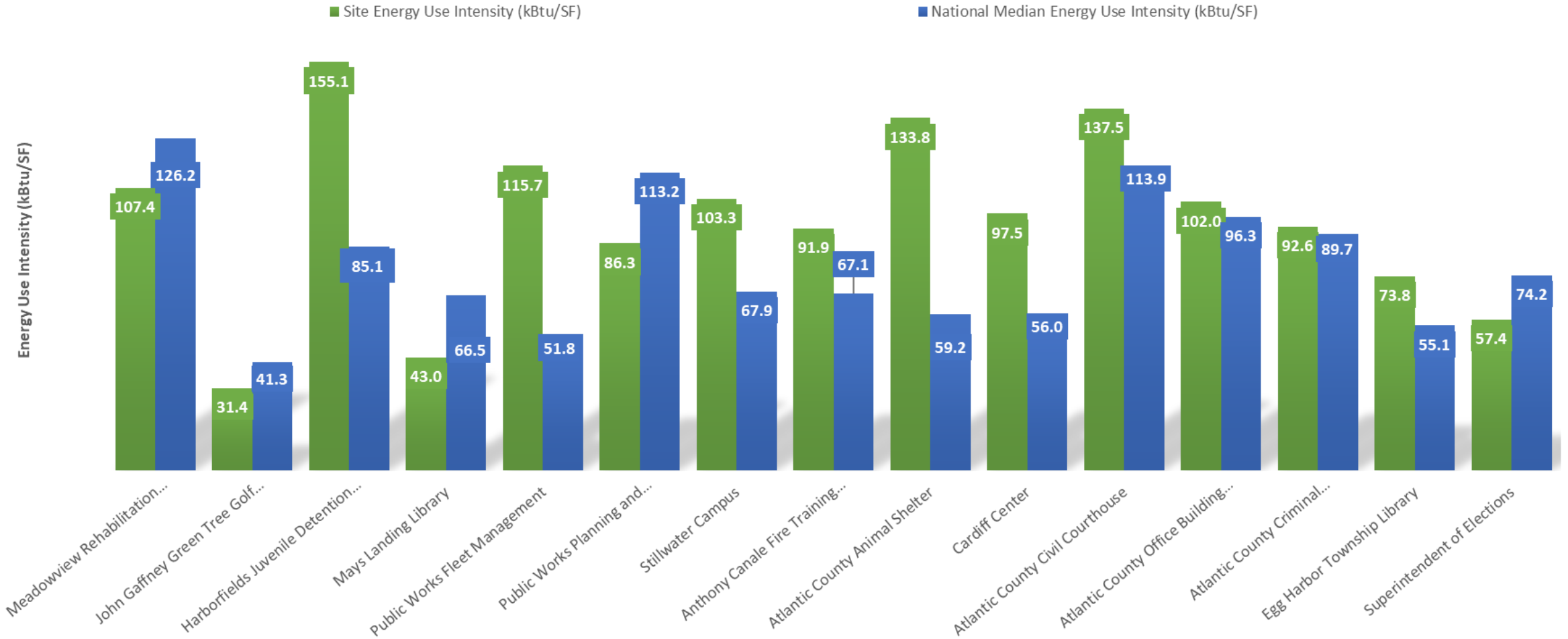
Source EUI
205.9 kBtu/ft²

National Median Comparison	
National Median Site EUI (kBtu/ft²)	96.3
National Median Source EUI (kBtu/ft²)	194.4
% Diff from National Median Source EUI	6%

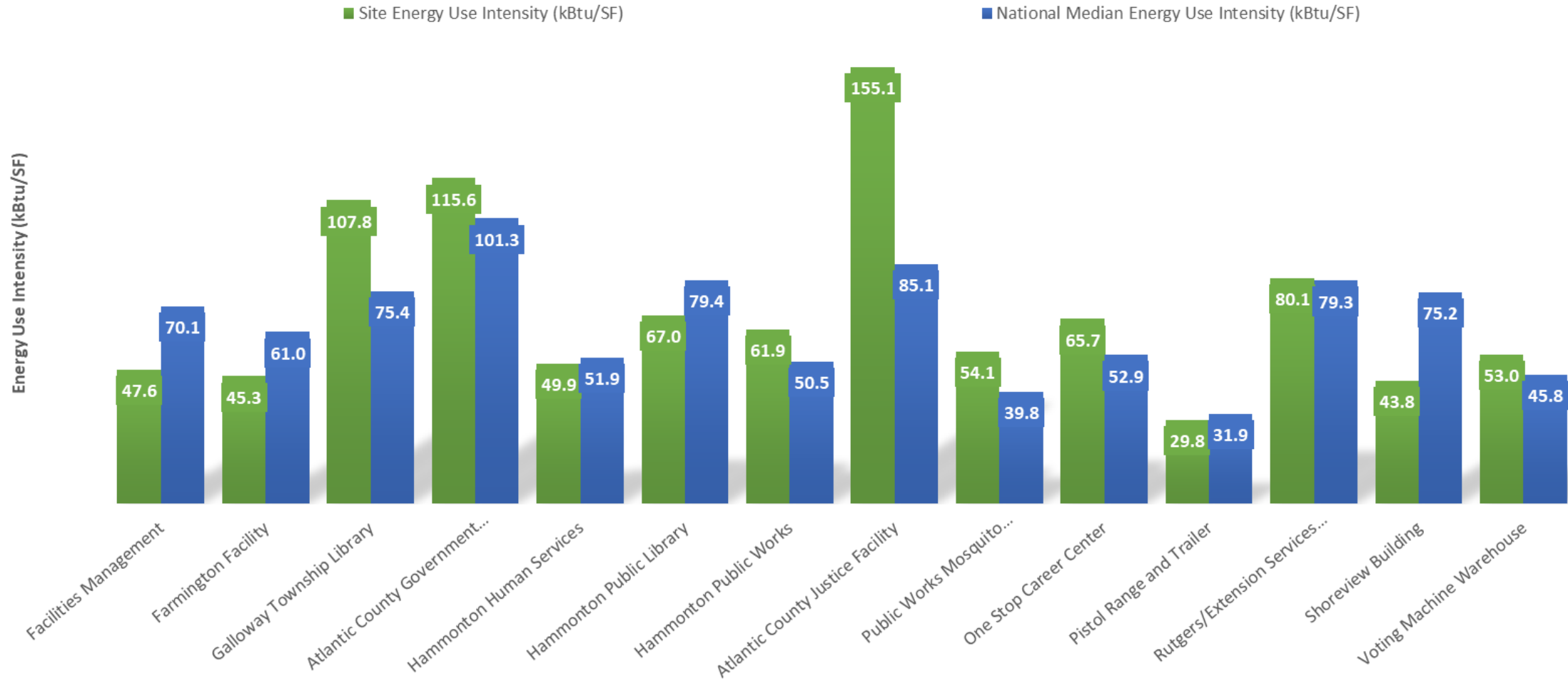
Site Name	ENERGY STAR® Score
Meadowview Rehabilitation Center and Cronin Dental	N/A
John Gaffney Green Tree Golf Course	N/A
Harborfields Juvenile Detention Center	N/A
Mays Landing Library	N/A
Public Works Fleet Management	N/A
Public Works Planning and Engineering	69
Stillwater Campus	N/A
Anthony Canale Fire Training Center	N/A
Atlantic County Animal Shelter	N/A
Cardiff Center	N/A
Atlantic County Civil Courthouse	35
Atlantic County Office Building and Library	45
Atlantic County Criminal Courthouse	47
Egg Harbor Township Library	N/A
Superintendent of Elections	68
Facilities Management	N/A
Farmington Facility	N/A
Galloway Township Library	N/A
Atlantic County Government Center	N/A
Hammonton Human Services	N/A
Hammonton Public Library	N/A
Hammonton Public Works	N/A
Atlantic County Justice Facility	N/A
Public Works Mosquito Building	N/A
One Stop Career Center	62
Pistol Range and Trailer	NA
Rutgers/Extension Services Offices	49
Shoreview Building	83
Voting Machine Warehouse	41

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.

BENCHMARKING

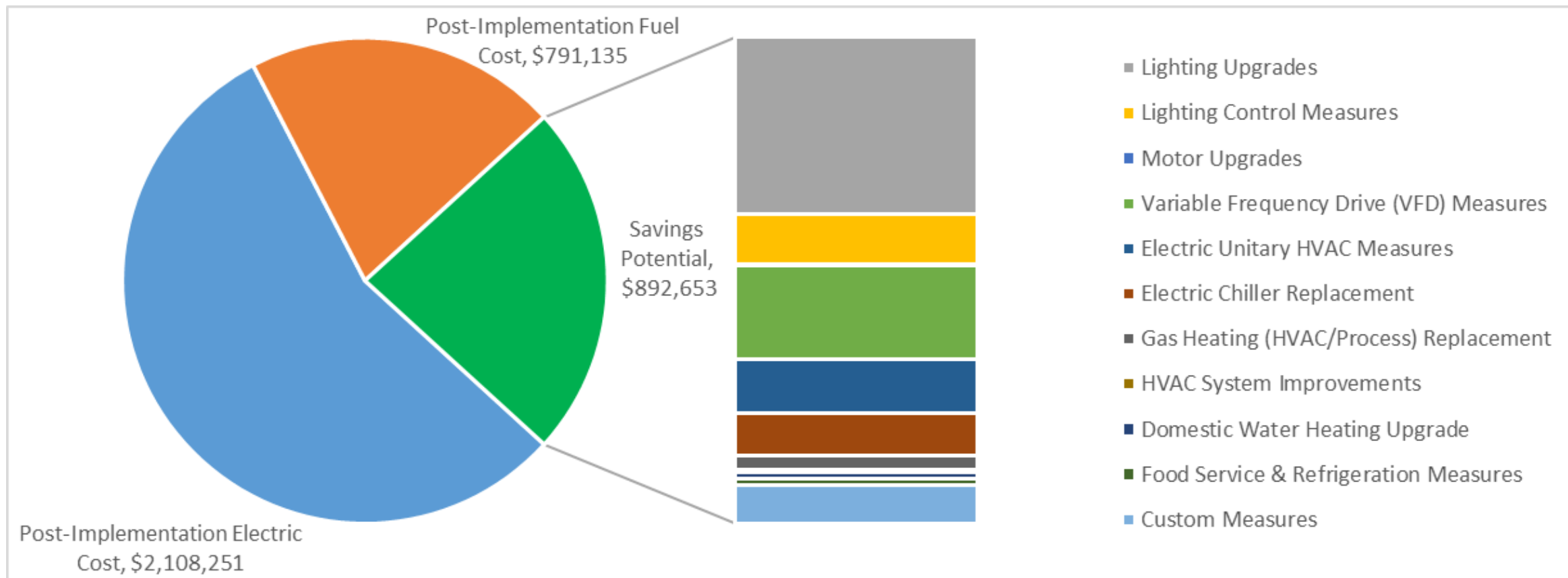


BENCHMARKING



ALL OPPORTUNITIES

Savings Potential



ALL OPPORTUNITIES (1 OF 2)

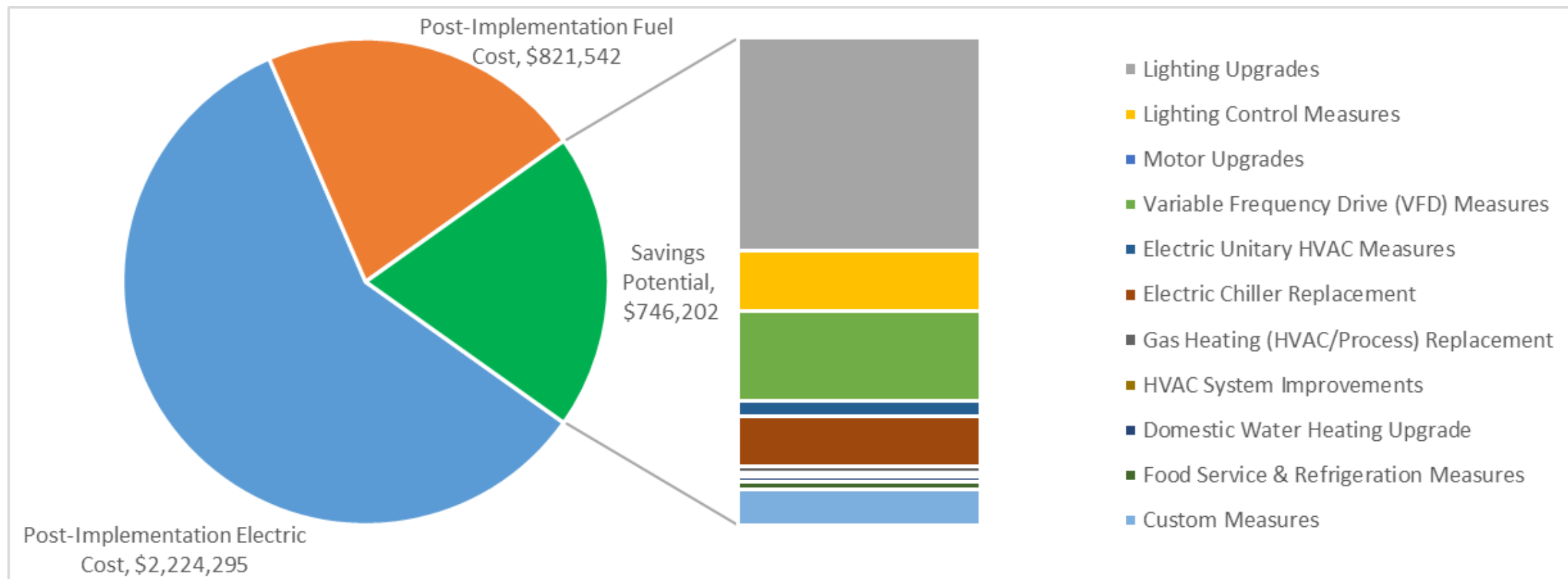
#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		2,309,742	456.8	-467.8	\$325,127	\$698,117	\$144,914	\$553,203	1.7	2,271,048
ECM 1	Install LED Fixtures	291,251	30.3	-43.9	\$39,123	\$109,732	\$11,705	\$98,027	2.5	288,142
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	93,358	24.8	-19.3	\$12,675	\$33,111	\$4,512	\$28,599	2.3	91,751
ECM 3	Retrofit Fixtures with LED Lamps	1,900,237	399.3	-399.3	\$269,600	\$547,168	\$128,697	\$418,471	1.6	1,866,701
ECM 4	Install LED Exit Signs	24,897	2.4	-5.3	\$3,728	\$8,106	\$0	\$8,106	2.2	24,455
Lighting Control Measures		643,650	127.5	-136.9	\$92,273	\$576,440	\$165,540	\$410,900	4.5	632,096
ECM 5	Install Occupancy Sensor Lighting Controls	482,126	101.8	-102.7	\$69,367	\$427,886	\$56,810	\$371,076	5.3	473,450
ECM 6	Install Daylight Dimming/Photocell Controls	483	0.0	0.0	\$71	\$600	\$0	\$600	8.5	486
ECM 7	Install High/Low Lighting Controls	161,041	25.6	-34.2	\$22,836	\$147,954	\$108,730	\$39,224	1.7	158,160
Motor Upgrades		7,924	2.7	0.0	\$1,170	\$33,714	\$0	\$33,714	28.8	7,979
ECM 8	Premium Efficiency Motors	7,924	2.7	0.0	\$1,170	\$33,714	\$0	\$33,714	28.8	7,979
Variable Frequency Drive (VFD) Measures		1,220,410	220.5	110.2	\$172,171	\$1,312,667	\$91,675	\$1,220,992	7.1	1,242,344
ECM 9	Install VFD on Variable Air Volume (VAV) Fans	122,973	28.8	0.0	\$17,640	\$72,358	\$10,000	\$62,358	3.5	123,833
ECM 10	Install VFDs on Constant Volume (CV) Fans	608,446	120.3	0.0	\$86,680	\$896,557	\$42,250	\$854,307	9.9	612,700
ECM 11	Install VFDs on Chilled Water Pumps	335,634	57.5	0.0	\$44,745	\$171,980	\$23,100	\$148,880	3.3	337,981
ECM 12	Install VFDs on Heating Water Pumps	103,373	10.4	0.0	\$14,643	\$99,941	\$10,850	\$89,091	6.1	104,096
ECM 13	Install VFDs on Cooling Tower Fans	18,294	-0.9	0.0	\$2,384	\$33,048	\$3,800	\$29,248	12.3	18,422
ECM 14	Install Boiler Draft Fan VFDs	7,645	2.4	0.0	\$1,142	\$5,940	\$1,000	\$4,940	4.3	7,699
ECM 15	Install VFDs on Boiler Feedwater Pumps	2,885	1.5	0.0	\$431	\$7,774	\$150	\$7,624	17.7	2,905
ECM 16	Install VFDs on Kitchen Hood Fan Motors	18,735	0.1	110.2	\$4,144	\$18,053	\$375	\$17,678	4.3	32,267
ECM 17	Install VFDs on Condensate Pumps	2,425	0.3	0.0	\$362	\$7,015	\$150	\$6,865	18.9	2,442
Unitary HVAC Measures		640,124	263.4	151.1	\$98,849	\$2,047,768	\$98,942	\$1,948,825	19.7	662,296
ECM 18	Install High Efficiency Air Conditioning Units	505,374	217.7	151.1	\$79,658	\$1,901,118	\$95,399	\$1,805,719	22.7	526,604
ECM 19	Install High Efficiency Heat Pumps	134,750	45.7	0.0	\$19,192	\$146,650	\$3,543	\$143,106	7.5	135,692

ALL OPPORTUNITIES (2 OF 2)

#	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)**	CO ₂ e Emissions Reduction (lbs)
Electric Chiller Replacement		594,069	271.5	0.0	\$77,631	\$752,355	\$28,880	\$723,475	9.3	598,223
ECM 20	Install High Efficiency Chillers	594,069	271.5	0.0	\$77,631	\$752,355	\$28,880	\$723,475	9.3	598,223
Gas Heating (HVAC/Process) Replacement		0	0.0	2,063.7	\$26,378	\$822,764	\$36,599	\$786,166	29.8	241,726
ECM 21	Install High Efficiency Hot Water Boilers	0	0.0	1,258.9	\$16,684	\$497,372	\$23,099	\$474,273	28.4	147,404
ECM 22	Install High Efficiency Steam Boilers	0	0.0	83.5	\$1,135	\$225,933	\$0	\$225,933	199.0	9,778
ECM 23	Install High Efficiency Furnaces	0	0.0	571.6	\$6,480	\$79,697	\$9,500	\$70,197	10.8	67,018
ECM 24	Install Infrared Heaters	0	0.0	149.7	\$2,078	\$19,762	\$4,000	\$15,762	7.6	17,525
HVAC System Improvements		27,898	0.0	144.5	\$5,889	\$8,000	\$1,112	\$6,888	1.2	45,018
ECM 25	Install Pipe Insulation	27,898	0.0	144.5	\$5,889	\$8,000	\$1,112	\$6,888	1.2	45,018
Domestic Water Heating Upgrade		45,881	0.0	237.6	\$9,743	\$32,976	\$5,528	\$27,448	2.8	74,056
ECM 26	Install High Efficiency Gas-Fired Water Heater	0	0.0	11.6	\$160	\$19,109	\$1,624	\$17,485	109.4	1,355
ECM 27	Install Low-Flow DHW Devices	45,881	0.0	226.0	\$9,583	\$13,867	\$3,904	\$9,964	1.0	72,701
Food Service & Refrigeration Measures		85,473	8.7	0.0	\$13,309	\$71,241	\$4,645	\$66,596	5.0	86,070
ECM 28	Dishwasher Replacement	9,072	1.0	0.0	\$1,601	\$9,270	\$700	\$8,570	5.4	9,136
ECM 29	Refrigerator/Freezer Case Electrically Commutated Motors	6,029	0.7	0.0	\$845	\$6,976	\$920	\$6,056	7.2	6,071
ECM 30	Refrigeration Controls	11,679	0.3	0.0	\$1,636	\$20,889	\$1,150	\$19,739	12.1	11,761
ECM 31	Replace Refrigeration Equipment	14,186	1.6	0.0	\$2,416	\$24,600	\$675	\$23,925	9.9	14,285
ECM 32	Vending Machine Control	44,507	5.1	0.0	\$6,811	\$9,505	\$1,200	\$8,305	1.2	44,818
Custom Measures		329,482	0.0	1,902.2	\$70,112	\$365,109	\$0	\$365,109	5.2	554,634
ECM 33	Retro-Commissioning Study	193,449	0.0	775.2	\$35,454	\$88,030	\$0	\$88,030	2.5	285,570
ECM 34	Upgrade/Replace Energy Management System	3,927	0.0	38.9	\$1,289	\$23,319	\$0	\$23,319	18.1	8,511
ECM 35	Installation of an Energy Management System	55,404	0.0	488.1	\$14,465	\$177,474	\$0	\$177,474	12.3	112,940
ECM 36	Replace Electric Water Heater with Heat Pump Water Heater	132,998	0.0	0.0	\$19,125	\$55,587	\$0	\$55,587	2.9	133,928
ECM 37	Replace Gas Fired Water Heater with Heat Pump Water Heater	-56,296	0.0	600.0	-\$221	\$20,699	\$0	\$20,699	-93.7	13,686
TOTALS		5,904,653	1,351.2	4,004.6	\$892,653	\$6,721,151	\$577,835	\$6,143,316	6.9	6,415,491

COST EFFECTIVE OPPORTUNITIES

Savings Potential



COST EFFECTIVE OPPORTUNITIES (1 OF 2)

#	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)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		2,309,677	456.8	-467.8	\$325,117	\$697,143	\$144,874	\$552,269	1.7	2,270,984
ECM 1	Install LED Fixtures	291,186	30.3	-43.9	\$39,113	\$108,758	\$11,665	\$97,093	2.5	288,078
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	93,358	24.8	-19.3	\$12,675	\$33,111	\$4,512	\$28,599	2.3	91,751
ECM 3	Retrofit Fixtures with LED Lamps	1,900,237	399.3	-399.3	\$269,600	\$547,168	\$128,697	\$418,471	1.6	1,866,701
ECM 4	Install LED Exit Signs	24,897	2.4	-5.3	\$3,728	\$8,106	\$0	\$8,106	2.2	24,455
Lighting Control Measures		643,180	127.1	-136.9	\$92,190	\$573,624	\$165,170	\$408,454	4.4	631,629
ECM 5	Install Occupancy Sensor Lighting Controls	481,656	101.5	-102.6	\$69,284	\$425,070	\$56,440	\$368,630	5.3	472,983
ECM 6	Install Daylight Dimming/Photocell Controls	483	0.0	0.0	\$71	\$600	\$0	\$600	8.5	486
ECM 7	Install High/Low Lighting Controls	161,041	25.6	-34.2	\$22,836	\$147,954	\$108,730	\$39,224	1.7	158,160
Motor Upgrades		198	0.0	0.0	\$35	\$469	\$0	\$469	13.4	200
ECM 8	Premium Efficiency Motors	198	0.0	0.0	\$35	\$469	\$0	\$469	13.4	200
Variable Frequency Drive (VFD) Measures		1,003,370	173.0	110.2	\$139,398	\$648,189	\$71,650	\$576,539	4.1	1,023,787
ECM 9	Install VFD on Variable Air Volume (VAV) Fans	122,973	28.8	0.0	\$17,640	\$72,358	\$10,000	\$62,358	3.5	123,833
ECM 10	Install VFDs on Constant Volume (CV) Fans	434,494	77.6	0.0	\$60,458	\$327,998	\$28,975	\$299,023	4.9	437,532
ECM 11	Install VFDs on Chilled Water Pumps	332,744	55.7	0.0	\$44,226	\$163,944	\$21,300	\$142,644	3.2	335,070
ECM 12	Install VFDs on Heating Water Pumps	86,779	8.4	0.0	\$11,787	\$59,895	\$10,000	\$49,895	4.2	87,386
ECM 14	Install Boiler Draft Fan VFDs	7,645	2.4	0.0	\$1,142	\$5,940	\$1,000	\$4,940	4.3	7,699
ECM 16	Install VFDs on Kitchen Hood Fan Motors	18,735	0.1	110.2	\$4,144	\$18,053	\$375	\$17,678	4.3	32,267

COST EFFECTIVE OPPORTUNITIES (2 OF 2)

#	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)**	CO ₂ e Emissions Reduction (lbs)
Unitary HVAC Measures		167,554	53.7	14.9	\$23,715	\$209,266	\$7,707	\$201,559	8.5	170,470
ECM 18	Install High Efficiency Air Conditioning Units	38,186	10.6	14.9	\$5,442	\$99,006	\$5,511	\$93,495	17.2	40,197
ECM 19	Install High Efficiency Heat Pumps	129,369	43.1	0.0	\$18,273	\$110,259	\$2,196	\$108,064	5.9	130,273
Electric Chiller Replacement		589,166	259.2	0.0	\$76,751	\$670,919	\$22,580	\$648,339	8.4	593,285
ECM 20	Install High Efficiency Chillers	589,166	259.2	0.0	\$76,751	\$670,919	\$22,580	\$648,339	8.4	593,285
Gas Heating (HVAC/Process) Replacement		0	0.0	703.6	\$8,257	\$83,241	\$11,500	\$71,741	8.7	82,380
ECM 23	Install High Efficiency Furnaces	0	0.0	553.9	\$6,179	\$63,479	\$7,500	\$55,979	9.1	64,854
ECM 24	Install Infrared Heaters	0	0.0	149.7	\$2,078	\$19,762	\$4,000	\$15,762	7.6	17,525
HVAC System Improvements		27,864	0.0	144.5	\$5,883	\$7,821	\$1,082	\$6,739	1.1	44,984
ECM 25	Install Pipe Insulation	27,864	0.0	144.5	\$5,883	\$7,821	\$1,082	\$6,739	1.1	44,984
Domestic Water Heating Upgrade		45,881	0.0	226.0	\$9,583	\$13,867	\$3,904	\$9,964	1.0	72,701
ECM 27	Install Low-Flow DHW Devices	45,881	0.0	226.0	\$9,583	\$13,867	\$3,904	\$9,964	1.0	72,701
Food Service & Refrigeration Measures		70,885	8.1	0.0	\$11,247	\$41,441	\$3,120	\$38,321	3.4	71,381
ECM 28	Dishwasher Replacement	9,072	1.0	0.0	\$1,601	\$9,270	\$700	\$8,570	5.4	9,136
ECM 29	Refrigerator/Freezer Case Electrically Commutated Motors	6,029	0.7	0.0	\$845	\$6,976	\$920	\$6,056	7.2	6,071
ECM 31	Replace Refrigeration Equipment	11,277	1.3	0.0	\$1,990	\$15,690	\$300	\$15,390	7.7	11,356
ECM 32	Vending Machine Control	44,507	5.1	0.0	\$6,811	\$9,505	\$1,200	\$8,305	1.2	44,818
Custom Measures		298,081	0.0	1,074.2	\$54,026	\$148,547	\$0	\$148,547	2.7	425,943
ECM 33	Retro-Commissioning Study	193,449	0.0	775.2	\$35,454	\$88,030	\$0	\$88,030	2.5	285,570
ECM 36	Replace Electric Water Heater with Heat Pump Water Heater	132,674	0.0	0.0	\$19,074	\$53,517	\$0	\$53,517	2.8	133,602
ECM 37	Replace Gas Fired Water Heater with Heat Pump Water Heater	-28,042	0.0	299.0	-\$502	\$7,000	\$0	\$7,000	-13.9	6,771
TOTALS		5,155,857	1,077.9	1,668.7	\$746,202	\$3,094,527	\$431,586	\$2,662,941	3.6	5,387,744

ATLANTIC COUNTY ANIMAL SHELTER

#	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 (lbs)
Lighting Upgrades			18,771	3.6	-4	\$2,824	\$4,890	\$1,328	\$3,562	1.3	18,448
ECM 1	Install LED Fixtures	Yes	447	0.0	0	\$68	\$331	\$100	\$231	3.4	450
ECM 2	Retrofit Fixtures with LED Lamps	Yes	18,324	3.6	-4	\$2,756	\$4,559	\$1,228	\$3,331	1.2	17,998
Lighting Control Measures			3,489	0.7	-1	\$525	\$4,142	\$1,520	\$2,622	5.0	3,426
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	1,806	0.4	0	\$272	\$1,892	\$260	\$1,632	6.0	1,774
ECM 4	Install High/Low Lighting Controls	Yes	1,682	0.3	0	\$253	\$2,250	\$1,260	\$990	3.9	1,652
Motor Upgrades			316	0.3	0	\$48	\$2,010	\$0	\$2,010	41.5	319
ECM 5	Premium Efficiency Motors	No	316	0.3	0	\$48	\$2,010	\$0	\$2,010	41.5	319
Variable Frequency Drive (VFD) Measures			29,269	5.8	0	\$4,485	\$32,203	\$2,975	\$29,228	6.5	29,474
ECM 6	Install VFDs on Constant Volume (CV) Fans	Yes	29,269	5.8	0	\$4,485	\$32,203	\$2,975	\$29,228	6.5	29,474
Unitary HVAC Measures			6,986	2.9	0	\$1,070	\$22,541	\$1,118	\$21,423	20.0	7,035
ECM 7	Install High Efficiency Air Conditioning Units	No	6,986	2.9	0	\$1,070	\$22,541	\$1,118	\$21,423	20.0	7,035
HVAC System Improvements			0	0.0	2	\$30	\$60	\$10	\$50	1.7	257
ECM 8	Install Pipe Insulation	Yes	0	0.0	2	\$30	\$60	\$10	\$50	1.7	257
Domestic Water Heating Upgrade			0	0.0	3	\$38	\$43	\$22	\$22	0.6	333
ECM 9	Install Low-Flow DHW Devices	Yes	0	0.0	3	\$38	\$43	\$22	\$22	0.6	333
Food Service & Refrigeration Measures			1,612	0.2	0	\$247	\$230	\$50	\$180	0.7	1,623
ECM 10	Vending Machine Control	Yes	1,612	0.2	0	\$247	\$230	\$50	\$180	0.7	1,623
TOTALS (COST EFFECTIVE MEASURES)			53,141	10.3	0	\$8,149	\$41,568	\$5,905	\$35,663	4.4	53,561
TOTALS (ALL MEASURES)			60,443	13.5	0	\$9,268	\$66,119	\$7,022	\$59,097	6.4	60,914

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

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

ATLANTIC COUNTY CIVIL COURTHOUSE

#	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 (lbs)
Lighting Upgrades			297,639	65.6	-63	\$38,128	\$86,604	\$21,576	\$65,028	1.7	292,401
ECM 1	Install LED Fixtures	Yes	4,128	0.0	0	\$540	\$1,782	\$30	\$1,752	3.2	4,157
ECM 2	Retrofit Fixtures with LED Lamps	Yes	293,511	65.6	-63	\$37,588	\$84,822	\$21,546	\$63,276	1.7	288,244
Lighting Control Measures			78,333	16.7	-17	\$10,031	\$85,593	\$27,920	\$57,673	5.7	76,927
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	57,457	12.8	-12	\$7,358	\$58,368	\$7,550	\$50,818	6.9	56,426
ECM 4	Install High/Low Lighting Controls	Yes	20,876	3.9	-4	\$2,673	\$27,225	\$20,370	\$6,855	2.6	20,501
Motor Upgrades			1,017	0.2	0	\$133	\$5,924	\$0	\$5,924	44.5	1,024
ECM 5	Premium Efficiency Motors	No	1,017	0.2	0	\$133	\$5,924	\$0	\$5,924	44.5	1,024
Variable Frequency Drive (VFD) Measures			279,522	41.3	0	\$36,597	\$145,134	\$18,975	\$126,159	3.4	281,476
ECM 6	Install VFD on Variable Air Volume (VAV) Fans	Yes	36,200	7.5	0	\$4,740	\$22,224	\$3,200	\$19,024	4.0	36,453
ECM 7	Install VFDs on Constant Volume (CV) Fans	No	1,579	0.3	0	\$207	\$3,508	\$75	\$3,433	16.6	1,590
ECM 8	Install VFDs on Chilled Water Pumps	Yes	179,032	28.7	0	\$23,440	\$72,961	\$9,700	\$63,261	2.7	180,284
ECM 9	Install VFDs on Heating Water Pumps	Yes	54,327	5.2	0	\$7,113	\$31,748	\$4,600	\$27,148	3.8	54,707
ECM 10	Install VFDs on Cooling Tower Fans	No	8,383	-0.4	0	\$1,098	\$14,693	\$1,400	\$13,293	12.1	8,442
Unitary HVAC Measures			3,000	0.8	0	\$393	\$4,044	\$0	\$4,044	10.3	3,021
ECM 11	Install High Efficiency Air Conditioning Units	No	3,000	0.8	0	\$393	\$4,044	\$0	\$4,044	10.3	3,021
Electric Chiller Replacement			257,810	132.5	0	\$33,754	\$329,999	\$10,500	\$319,499	9.5	259,613
ECM 12	Install High Efficiency Chillers	Yes	257,810	132.5	0	\$33,754	\$329,999	\$10,500	\$319,499	9.5	259,613
Gas Heating (HVAC/Process) Replacement			0	0.0	532	\$7,157	\$140,598	\$3,481	\$137,117	19.2	62,323
ECM 13	Install High Efficiency Hot Water Boilers	No	0	0.0	532	\$7,157	\$140,598	\$3,481	\$137,117	19.2	62,323
HVAC System Improvements			4,449	0.0	3	\$629	\$744	\$115	\$629	1.0	4,884
ECM 14	Install Pipe Insulation	Yes	4,449	0.0	3	\$629	\$744	\$115	\$629	1.0	4,884
Domestic Water Heating Upgrade			7,785	0.0	7	\$1,115	\$509	\$255	\$255	0.2	8,673
ECM 15	Install Low-Flow DHW Devices	Yes	7,785	0.0	7	\$1,115	\$509	\$255	\$255	0.2	8,673
Food Service & Refrigeration Measures			3,909	0.4	0	\$512	\$920	\$100	\$820	1.6	3,936
ECM 16	Vending Machine Control	Yes	3,909	0.4	0	\$512	\$920	\$100	\$820	1.6	3,936
Custom Measures			12,135	0.0	0	\$1,590	\$6,523	\$0	\$6,523	4.1	12,220
ECM 17	Replace Electric Water Heater with Heat Pump Water Heater	Yes	12,135	0.0	0	\$1,590	\$6,523	\$0	\$6,523	4.1	12,220
TOTALS (COST EFFECTIVE MEASURES)			931,619	256.6	-69	\$121,051	\$637,826	\$77,966	\$559,860	4.6	930,099
TOTALS (ALL MEASURES)			945,599	257.5	464	\$130,038	\$806,593	\$82,921	\$723,672	5.6	1,006,499

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

ATLANTIC COUNTY CRIMINAL COURTHOUSE

#	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 (lbs)
Lighting Upgrades			409,378	79.5	-86	\$61,883	\$132,431	\$24,736	\$107,695	1.7	402,221
ECM 1	Install LED Fixtures	Yes	7,563	0.0	0	\$1,165	\$4,113	\$1,100	\$3,013	2.6	7,616
ECM 2	Retrofit Fixtures with LED Lamps	Yes	401,815	79.5	-86	\$60,719	\$128,318	\$23,636	\$104,682	1.7	394,605
Lighting Control Measures			168,703	32.1	-36	\$25,493	\$107,357	\$35,670	\$71,687	2.8	165,676
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	112,384	23.0	-24	\$16,982	\$70,682	\$9,070	\$61,612	3.6	110,367
ECM 4	Install High/Low Lighting Controls	Yes	56,320	9.1	-12	\$8,511	\$36,675	\$26,600	\$10,075	1.2	55,309
Motor Upgrades			551	0.1	0	\$85	\$3,276	\$0	\$3,276	38.6	555
ECM 5	Premium Efficiency Motors	No	551	0.1	0	\$85	\$3,276	\$0	\$3,276	38.6	555
Unitary HVAC Measures			266,587	106.6	67	\$41,956	\$1,065,740	\$50,515	\$1,015,225	24.2	276,251
ECM 6	Install High Efficiency Air Conditioning Units	No	266,587	106.6	67	\$41,956	\$1,065,740	\$50,515	\$1,015,225	24.2	276,251
Gas Heating (HVAC/Process) Replacement			0	0.0	141	\$1,917	\$85,800	\$5,654	\$80,146	41.8	16,567
ECM 7	Install High Efficiency Hot Water Boilers	No	0	0.0	141	\$1,917	\$85,800	\$5,654	\$80,146	41.8	16,567
HVAC System Improvements			4,967	0.0	0	\$765	\$716	\$120	\$596	0.8	5,001
ECM 8	Install Pipe Insulation	Yes	4,967	0.0	0	\$765	\$716	\$120	\$596	0.8	5,001
Domestic Water Heating Upgrade			2,085	0.0	0	\$321	\$108	\$54	\$54	0.2	2,100
ECM 9	Install Low-Flow DHW Devices	Yes	2,085	0.0	0	\$321	\$108	\$54	\$54	0.2	2,100
Food Service & Refrigeration Measures			7,817	0.9	0	\$1,204	\$1,840	\$200	\$1,640	1.4	7,872
ECM 10	Vending Machine Control	Yes	7,817	0.9	0	\$1,204	\$1,840	\$200	\$1,640	1.4	7,872
Custom Measures			4,044	0.0	0	\$622	\$3,513	\$0	\$3,513	5.6	4,072
ECM 11	Replace Electric Water Heater with Heat Pump Water Heater	Yes	4,044	0.0	0	\$622	\$3,513	\$0	\$3,513	5.6	4,072
TOTALS (COST EFFECTIVE MEASURES)			596,994	112.4	-121	\$90,288	\$245,965	\$60,780	\$185,185	2.1	586,942
TOTALS (ALL MEASURES)			864,132	219.2	87	\$134,246	\$1,400,781	\$116,949	\$1,283,832	9.6	880,315

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

PISTOL RANGER & TRAILER

#	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 (lbs)
Lighting Upgrades			8,324	1.1	0	\$1,529	\$5,913	\$1,033	\$4,880	3.2	8,382
ECM 1	Install LED Fixtures	Yes	3,539	0.0	0	\$650	\$4,352	\$650	\$3,702	5.7	3,564
ECM 2	Retrofit Fixtures with LED Lamps	Yes	4,785	1.1	0	\$879	\$1,561	\$383	\$1,178	1.3	4,818
Lighting Control Measures			804	0.3	0	\$148	\$1,961	\$300	\$1,661	11.2	810
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	804	0.3	0	\$148	\$1,961	\$300	\$1,661	11.2	810
Variable Frequency Drive (VFD) Measures			1,547	0.2	0	\$284	\$6,075	\$100	\$5,975	21.0	1,558
ECM 4	Install VFDs on Constant Volume (CV) Fans	No	1,547	0.2	0	\$284	\$6,075	\$100	\$5,975	21.0	1,558
Unitary HVAC Measures			5,359	4.7	0	\$985	\$9,243	\$315	\$8,928	9.1	5,397
ECM 5	Install High Efficiency Air Conditioning Units	No	798	0.7	0	\$147	\$7,661	\$315	\$7,346	50.1	804
ECM 6	Install High Efficiency Heat Pumps	Yes	4,561	4.0	0	\$838	\$1,582	\$0	\$1,582	1.9	4,593
Domestic Water Heating Upgrade			1,112	0.0	0	\$204	\$29	\$14	\$14	0.1	1,120
ECM 7	Install Low-Flow DHW Devices	Yes	1,112	0.0	0	\$204	\$29	\$14	\$14	0.1	1,120
Food Service & Refrigeration Measures			1,954	0.2	0	\$359	\$460	\$50	\$410	1.1	1,968
ECM 8	Vending Machine Control	Yes	1,954	0.2	0	\$359	\$460	\$50	\$410	1.1	1,968
TOTALS (COST EFFECTIVE MEASURES)			16,756	5.6	0	\$3,079	\$9,945	\$1,397	\$8,547	2.8	16,873
TOTALS (ALL MEASURES)			19,102	6.5	0	\$3,510	\$23,681	\$1,812	\$21,868	6.2	19,235

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ATLANTIC COUNTY GOVERNMENT 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 (lbs)
Lighting Upgrades			120,645	23.4	-26	\$17,677	\$33,651	\$8,182	\$25,469	1.4	118,480
ECM 1	Retrofit Fixtures with LED Lamps	Yes	120,645	23.4	-26	\$17,677	\$33,651	\$8,182	\$25,469	1.4	118,480
Lighting Control Measures			31,698	5.3	-7	\$4,644	\$30,083	\$8,135	\$21,948	4.7	31,130
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	25,707	4.4	-5	\$3,766	\$23,108	\$2,955	\$20,153	5.4	25,245
ECM 3	Install High/Low Lighting Controls	Yes	5,992	1.0	-1	\$878	\$6,975	\$5,180	\$1,795	2.0	5,884
Variable Frequency Drive (VFD) Measures			68,821	15.2	0	\$10,283	\$62,170	\$5,950	\$56,220	5.5	69,302
ECM 4	Install VFDs on Constant Volume (CV) Fans	Yes	29,515	5.4	0	\$4,410	\$23,087	\$2,250	\$20,837	4.7	29,721
ECM 5	Install VFDs on Chilled Water Pumps	Yes	26,351	5.6	0	\$3,937	\$18,354	\$2,400	\$15,954	4.1	26,535
ECM 6	Install Boiler Draft Fan VFDs	Yes	7,645	2.4	0	\$1,142	\$5,940	\$1,000	\$4,940	4.3	7,699
ECM 7	Install VFDs on Boiler Feedwater Pumps	No	2,885	1.5	0	\$431	\$7,774	\$150	\$7,624	17.7	2,905
ECM 8	Install VFDs on Condensate Pumps	No	2,425	0.3	0	\$362	\$7,015	\$150	\$6,865	18.9	2,442
Unitary HVAC Measures			2,838	0.9	0	\$424	\$6,559	\$0	\$6,559	15.5	2,858
ECM 9	Install High Efficiency Air Conditioning Units	No	1,707	0.5	0	\$255	\$3,922	\$0	\$3,922	15.4	1,719
ECM 10	Install High Efficiency Heat Pumps	No	1,132	0.4	0	\$169	\$2,638	\$0	\$2,638	15.6	1,140
Gas Heating (HVAC/Process) Replacement			0	0.0	84	\$1,135	\$225,933	\$0	\$225,933	199.0	9,778
ECM 11	Install High Efficiency Steam Boilers	No	0	0.0	84	\$1,135	\$225,933	\$0	\$225,933	199.0	9,778
HVAC System Improvements			4,285	0.0	0	\$640	\$835	\$140	\$695	1.1	4,314
ECM 12	Install Pipe Insulation	Yes	4,285	0.0	0	\$640	\$835	\$140	\$695	1.1	4,314
Domestic Water Heating Upgrade			3,753	0.0	0	\$561	\$194	\$97	\$97	0.2	3,780
ECM 13	Install Low-Flow DHW Devices	Yes	3,753	0.0	0	\$561	\$194	\$97	\$97	0.2	3,780
Food Service & Refrigeration Measures			1,954	0.2	0	\$292	\$460	\$50	\$410	1.4	1,968
ECM 14	Vending Machine Control	Yes	1,954	0.2	0	\$292	\$460	\$50	\$410	1.4	1,968
Custom Measures			59,606	0.0	153	\$10,981	\$32,780	\$0	\$32,780	3.0	77,895
ECM 15	Retro-Commissioning Study	Yes	52,326	0.0	153	\$9,893	\$26,884	\$0	\$26,884	2.7	70,564
ECM 16	Replace Electric Water Heater with Heat Pump Water Heater	Yes	7,280	0.0	0	\$1,088	\$5,896	\$0	\$5,896	5.4	7,331
TOTALS (COST EFFECTIVE MEASURES)			285,453	42.4	120	\$44,284	\$145,384	\$22,254	\$123,130	2.8	301,522
TOTALS (ALL MEASURES)			293,601	45.2	204	\$46,637	\$392,665	\$22,554	\$370,111	7.9	319,506

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

ATLANTIC COUNTY JUSTICE CENTER COMPLEX

#	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 (lbs)
Lighting Upgrades			444,854	56.1	-90	\$56,739	\$100,138	\$16,253	\$83,885	1.5	437,474
ECM 1	Install LED Fixtures	Yes	200,982	23.4	-38	\$25,665	\$56,277	\$4,700	\$51,577	2.0	197,978
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	371	0.2	0	\$47	\$275	\$40	\$235	5.0	364
ECM 3	Retrofit Fixtures with LED Lamps	Yes	243,501	32.5	-52	\$31,026	\$43,585	\$11,513	\$32,072	1.0	239,132
Lighting Control Measures			80,118	10.4	-17	\$10,208	\$58,572	\$14,750	\$43,822	4.3	78,681
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	62,406	8.7	-13	\$7,952	\$45,522	\$5,860	\$39,662	5.0	61,286
ECM 5	Install High/Low Lighting Controls	Yes	17,713	1.7	-4	\$2,257	\$13,050	\$8,890	\$4,160	1.8	17,395
Motor Upgrades			1,459	0.1	0	\$189	\$2,756	\$0	\$2,756	14.6	1,469
ECM 6	Premium Efficiency Motors	No	1,459	0.1	0	\$189	\$2,756	\$0	\$2,756	14.6	1,469
Variable Frequency Drive (VFD) Measures			373,273	52.3	45	\$48,929	\$218,010	\$23,400	\$194,610	4.0	381,133
ECM 7	Install VFD on Variable Air Volume (VAV) Fans	Yes	4,294	0.6	0	\$557	\$4,182	\$100	\$4,082	7.3	4,324
ECM 8	Install VFDs on Constant Volume (CV) Fans	Yes	224,920	32.3	0	\$29,186	\$104,630	\$10,050	\$94,580	3.2	226,493
ECM 9	Install VFDs on Chilled Water Pumps	Yes	98,613	17.5	0	\$12,796	\$59,235	\$7,000	\$52,235	4.1	99,302
ECM 10	Install VFDs on Heating Water Pumps	Yes	23,142	2.2	0	\$3,003	\$20,111	\$3,600	\$16,511	5.5	23,303
ECM 11	Install VFDs on Cooling Tower Fans	No	9,911	-0.5	0	\$1,286	\$18,354	\$2,400	\$15,954	12.4	9,980
ECM 12	Install VFDs on Kitchen Hood Fan Motors	Yes	12,393	0.1	45	\$2,101	\$11,499	\$250	\$11,249	5.4	17,731
Unitary HVAC Measures			86,546	26.5	3	\$11,260	\$89,784	\$3,170	\$86,614	7.7	87,465
ECM 13	Install High Efficiency Air Conditioning Units	No	28,253	8.8	3	\$3,696	\$61,797	\$3,170	\$58,627	15.9	28,765
ECM 14	Install High Efficiency Heat Pumps	Yes	58,293	17.6	0	\$7,564	\$27,987	\$0	\$27,987	3.7	58,700
Electric Chiller Replacement			331,356	126.7	0	\$42,997	\$340,920	\$12,080	\$328,840	7.6	333,672
ECM 15	Install High Efficiency Chillers	Yes	331,356	126.7	0	\$42,997	\$340,920	\$12,080	\$328,840	7.6	333,672
Gas Heating (HVAC/Process) Replacement			0	0.0	714	\$7,855	\$111,160	\$9,485	\$101,675	12.9	83,609
ECM 16	Install High Efficiency Hot Water Boilers	No	0	0.0	194	\$2,137	\$51,823	\$2,485	\$49,338	23.1	22,742
ECM 17	Install High Efficiency Furnaces	Yes	0	0.0	520	\$5,718	\$59,336	\$7,000	\$52,336	9.2	60,866
HVAC System Improvements			1,933	0.0	29	\$575	\$691	\$80	\$611	1.1	5,400
ECM 18	Install Pipe Insulation	Yes	1,933	0.0	29	\$575	\$691	\$80	\$611	1.1	5,400
Domestic Water Heating Upgrade			1,112	0.0	30	\$478	\$516	\$258	\$258	0.5	4,675
ECM 19	Install Low-Flow DHW Devices	Yes	1,112	0.0	30	\$478	\$516	\$258	\$258	0.5	4,675
Food Service & Refrigeration Measures			5,178	0.6	0	\$672	\$920	\$150	\$770	1.1	5,214
ECM 20	Vending Machine Control	Yes	5,178	0.6	0	\$672	\$920	\$150	\$770	1.1	5,214
Custom Measures			115,878	0.0	509	\$20,634	\$51,746	\$0	\$51,746	2.5	176,266
ECM 21	Retro-Commissioning Study	Yes	115,878	0.0	509	\$20,634	\$51,746	\$0	\$51,746	2.5	176,266
TOTALS (COST EFFECTIVE MEASURES)			1,402,083	264.2	1,027	\$193,229	\$840,482	\$71,571	\$768,911	4.0	1,532,102
TOTALS (ALL MEASURES)			1,441,706	272.7	1,224	\$200,537	\$975,213	\$79,626	\$895,587	4.5	1,595,059

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

ATLANTIC COUNTY OFFICE BUILDING

#	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 (lbs)
Lighting Upgrades			325,534	88.2	-68	\$44,144	\$103,913	\$23,868	\$80,045	1.8	319,840
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	87,957	23.7	-18	\$11,927	\$30,982	\$4,212	\$26,770	2.2	86,419
ECM 2	Retrofit Fixtures with LED Lamps	Yes	237,577	64.5	-50	\$32,216	\$72,931	\$19,656	\$53,275	1.7	233,422
Lighting Control Measures			76,318	20.1	-16	\$10,349	\$99,795	\$28,250	\$71,545	6.9	74,983
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	63,569	17.2	-13	\$8,620	\$76,620	\$9,875	\$66,745	7.7	62,457
ECM 4	Install High/Low Lighting Controls	Yes	12,749	2.9	-3	\$1,729	\$23,175	\$18,375	\$4,800	2.8	12,526
Motor Upgrades			478	0.1	0	\$66	\$4,145	\$0	\$4,145	62.6	482
ECM 5	Premium Efficiency Motors	No	478	0.1	0	\$66	\$4,145	\$0	\$4,145	62.6	482
Variable Frequency Drive (VFD) Measures			52,006	15.0	0	\$7,200	\$43,892	\$7,600	\$36,292	5.0	52,369
ECM 6	Install VFDs on Constant Volume (CV) Fans	Yes	52,006	15.0	0	\$7,200	\$43,892	\$7,600	\$36,292	5.0	52,369
HVAC System Improvements			7,269	0.0	0	\$1,006	\$652	\$100	\$552	0.5	7,320
ECM 7	Install Pipe Insulation	Yes	7,269	0.0	0	\$1,006	\$652	\$100	\$552	0.5	7,320
Domestic Water Heating Upgrade			10,426	0.0	0	\$1,444	\$538	\$269	\$269	0.2	10,499
ECM 8	Install Low-Flow DHW Devices	Yes	10,426	0.0	0	\$1,444	\$538	\$269	\$269	0.2	10,499
Custom Measures			50,645	0.0	0	\$7,013	\$11,535	\$0	\$11,535	1.6	50,999
ECM 9	Replace Electric Water Heater with Heat Pump Water Heater	Yes	50,645	0.0	0	\$7,013	\$11,535	\$0	\$11,535	1.6	50,999
TOTALS (COST EFFECTIVE MEASURES)			522,197	123.3	-84	\$71,156	\$260,324	\$60,087	\$200,237	2.8	516,010
TOTALS (ALL MEASURES)			522,676	123.4	-84	\$71,222	\$264,470	\$60,087	\$204,383	2.9	516,492

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

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

ANTONY CANALE FIRE TRAINING CENTER CAMPUS

#	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 (lbs)
Lighting Upgrades			70,682	18.2	-13	\$10,691	\$27,494	\$4,974	\$22,520	2.1	69,659
ECM 1	Install LED Fixtures	Yes	22,618	3.9	-3	\$3,438	\$13,652	\$1,600	\$12,052	3.5	22,437
ECM 2	Retrofit Fixtures with LED Lamps	Yes	48,064	14.3	-10	\$7,253	\$13,842	\$3,374	\$10,468	1.4	47,222
Lighting Control Measures			14,281	3.6	-3	\$2,154	\$20,242	\$7,605	\$12,637	5.9	14,024
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	10,361	2.7	-2	\$1,563	\$13,042	\$1,795	\$11,247	7.2	10,175
ECM 4	Install High/Low Lighting Controls	Yes	3,920	0.9	-1	\$591	\$7,200	\$5,810	\$1,390	2.4	3,849
Motor Upgrades			3,025	1.5	0	\$465	\$8,389	\$0	\$8,389	18.0	3,046
ECM 5	Premium Efficiency Motors	No	3,025	1.5	0	\$465	\$8,389	\$0	\$8,389	18.0	3,046
Variable Frequency Drive (VFD) Measures			22,153	4.9	0	\$3,406	\$20,087	\$2,200	\$17,887	5.3	22,308
ECM 6	Install VFD on Variable Air Volume (VAV) Fans	Yes	18,306	4.5	0	\$2,814	\$11,724	\$2,000	\$9,724	3.5	18,434
ECM 7	Install VFDs on Heating Water Pumps	No	3,847	0.4	0	\$591	\$8,363	\$200	\$8,163	13.8	3,874
Unitary HVAC Measures			20,907	7.5	0	\$3,214	\$50,209	\$3,400	\$46,809	14.6	21,053
ECM 8	Install High Efficiency Air Conditioning Units	No	20,907	7.5	0	\$3,214	\$50,209	\$3,400	\$46,809	14.6	21,053
Gas Heating (HVAC/Process) Replacement			0	0.0	96	\$1,301	\$40,600	\$2,000	\$38,600	29.7	11,251
ECM 9	Install High Efficiency Hot Water Boilers	No	0	0.0	96	\$1,301	\$40,600	\$2,000	\$38,600	29.7	11,251
Domestic Water Heating Upgrade			834	0.0	11	\$275	\$13,087	\$1,086	\$12,001	43.6	2,113
ECM 10	Install High Efficiency Gas-Fired Water Heater	No	0	0.0	9	\$122	\$13,015	\$1,050	\$11,965	98.5	1,051
ECM 11	Install Low-Flow DHW Devices	Yes	834	0.0	2	\$154	\$72	\$36	\$36	0.2	1,062
Food Service & Refrigeration Measures			1,954	0.2	0	\$300	\$460	\$50	\$410	1.4	1,968
ECM 12	Vending Machine Control	Yes	1,954	0.2	0	\$300	\$460	\$50	\$410	1.4	1,968
TOTALS (COST EFFECTIVE MEASURES)			106,057	26.5	-14	\$16,113	\$59,992	\$14,665	\$45,327	2.8	105,147
TOTALS (ALL MEASURES)			133,835	35.9	91	\$21,806	\$180,568	\$21,315	\$159,253	7.3	145,421

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

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

CARDIFF 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 (lbs)
Lighting Upgrades			6,433	2.6	-1	\$1,155	\$4,110	\$979	\$3,131	2.7	6,326
ECM 1	Install LED Fixtures	Yes	342	0.0	0	\$63	\$370	\$50	\$320	5.1	344
ECM 2	Retrofit Fixtures with LED Lamps	Yes	6,091	2.6	-1	\$1,092	\$3,739	\$929	\$2,810	2.6	5,982
Lighting Control Measures			1,726	0.7	0	\$309	\$5,589	\$1,405	\$4,184	13.5	1,695
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	1,559	0.7	0	\$280	\$4,914	\$985	\$3,929	14.1	1,531
ECM 4	Install High/Low Lighting Controls	Yes	167	0.1	0	\$30	\$675	\$420	\$255	8.5	164
Motor Upgrades			0	0.0	0	\$0	\$0	\$0	\$0	0.0	0
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	9,238	2.4	0	\$1,693	\$20,301	\$350	\$19,951	11.8	9,302
Unitary HVAC Measures			1,719	9.4	7	\$441	\$44,191	\$2,145	\$42,046	95.3	2,524
ECM 6	Install High Efficiency Air Conditioning Units	No	1,719	9.4	7	\$441	\$44,191	\$2,145	\$42,046	95.3	2,524
Domestic Water Heating Upgrade			0	0.0	6	\$110	\$50	\$24	\$27	0.2	690
ECM 7	Install Low-Flow DHW Devices	Yes	0	0.0	6	\$110	\$50	\$24	\$27	0.2	690
TOTALS (COST EFFECTIVE MEASURES)			17,396	5.8	4	\$3,267	\$30,050	\$2,758	\$27,292	8.4	18,012
TOTALS (ALL MEASURES)			19,115	15.2	11	\$3,708	\$74,241	\$4,903	\$69,339	18.7	20,536

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

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

EGG HARBOR TOWNSHIP LIBRARY

#	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 (lbs)
Lighting Upgrades			10,550	3.7	-2	\$1,608	\$5,857	\$1,224	\$4,633	2.9	10,366
ECM 1	Install LED Fixtures	No	65	0.0	0	\$10	\$974	\$40	\$934	94.1	64
ECM 2	Retrofit Fixtures with LED Lamps	Yes	9,160	3.5	-2	\$1,396	\$4,409	\$1,184	\$3,225	2.3	9,001
ECM 3	Install LED Exit Signs	Yes	1,325	0.1	0	\$202	\$475	\$0	\$475	2.4	1,301
Lighting Control Measures			2,581	1.0	-1	\$393	\$3,742	\$495	\$3,247	8.3	2,534
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	2,581	1.0	-1	\$393	\$3,742	\$495	\$3,247	8.3	2,534
Unitary HVAC Measures			41,119	12.4	0	\$6,423	\$73,196	\$2,196	\$71,001	11.1	41,407
ECM 5	Install High Efficiency Heat Pumps	Yes	41,119	12.4	0	\$6,423	\$73,196	\$2,196	\$71,001	11.1	41,407
Gas Heating (HVAC/Process) Replacement			0	0.0	15	\$278	\$19,229	\$1,144	\$18,085	65.2	1,789
ECM 6	Install High Efficiency Hot Water Boilers	No	0	0.0	15	\$278	\$19,229	\$1,144	\$18,085	65.2	1,789
Domestic Water Heating Upgrade			949	0.0	0	\$148	\$57	\$26	\$32	0.2	955
ECM 7	Install Low-Flow DHW Devices	Yes	949	0.0	0	\$148	\$57	\$26	\$32	0.2	955
Custom Measures			324	0.0	0	\$51	\$2,070	\$0	\$2,070	40.6	326
ECM 8	Replace Electric Water Heater with Heat Pump Water Heater	No	324	0.0	0	\$51	\$2,070	\$0	\$2,070	40.6	326
TOTALS (COST EFFECTIVE MEASURES)			55,133	17.1	-3	\$8,562	\$81,880	\$3,900	\$77,979	9.1	55,198
TOTALS (ALL MEASURES)			55,522	17.1	13	\$8,900	\$104,152	\$5,084	\$99,068	11.1	57,377

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

FARMINGTON FACILITY

#	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 (lbs)
Lighting Upgrades			2,801	1.4	-1	\$494	\$1,806	\$480	\$1,326	2.7	2,747
ECM 1	Retrofit Fixtures with LED Lamps	Yes	2,801	1.4	-1	\$494	\$1,806	\$480	\$1,326	2.7	2,747
Lighting Control Measures			1,041	0.5	0	\$184	\$3,780	\$2,090	\$1,690	9.2	1,020
ECM 2	Install Occupancy Sensor Lighting Controls	No	250	0.1	0	\$44	\$1,080	\$140	\$940	21.3	245
ECM 3	Install High/Low Lighting Controls	Yes	791	0.3	0	\$140	\$2,700	\$1,950	\$750	5.4	775
Motor Upgrades			61	0.0	0	\$11	\$914	\$0	\$914	83.9	61
ECM 4	Premium Efficiency Motors	No	61	0.0	0	\$11	\$914	\$0	\$914	83.9	61
Unitary HVAC Measures			771	0.4	0	\$139	\$14,830	\$840	\$13,990	100.9	777
ECM 5	Install High Efficiency Air Conditioning Units	No	771	0.4	0	\$139	\$14,830	\$840	\$13,990	100.9	777
Gas Heating (HVAC/Process) Replacement			0	0.0	14	\$204	\$7,154	\$1,000	\$6,154	30.1	1,623
ECM 6	Install High Efficiency Furnaces	No	0	0.0	14	\$204	\$7,154	\$1,000	\$6,154	30.1	1,623
HVAC System Improvements			0	0.0	0	\$5	\$24	\$2	\$22	4.3	41
ECM 7	Install Pipe Insulation	Yes	0	0.0	0	\$5	\$24	\$2	\$22	4.3	41
Domestic Water Heating Upgrade			0	0.0	1	\$11	\$14	\$7	\$7	0.6	88
ECM 8	Install Low-Flow DHW Devices	Yes	0	0.0	1	\$11	\$14	\$7	\$7	0.6	88
Food Service & Refrigeration Measures			568	0.1	0	\$102	\$3,119	\$50	\$3,069	30.0	572
ECM 9	Replace Refrigeration Equipment	No	568	0.1	0	\$102	\$3,119	\$50	\$3,069	30.0	572
TOTALS (COST EFFECTIVE MEASURES)			3,592	1.7	0	\$650	\$4,544	\$2,439	\$2,105	3.2	3,651
TOTALS (ALL MEASURES)			5,242	2.4	14	\$1,150	\$31,641	\$4,469	\$27,171	23.6	6,929

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

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

GALLOWAY TOWNSHIP LIBRARY

#	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 (lbs)
Lighting Upgrades			20,398	2.2	-2	\$3,629	\$6,043	\$398	\$5,645	1.6	20,268
ECM 1	Retrofit Fixtures with LED Lamps	Yes	16,993	1.9	-2	\$3,028	\$4,956	\$398	\$4,558	1.5	16,923
ECM 2	Install LED Exit Signs	Yes	3,406	0.3	-1	\$601	\$1,086	\$0	\$1,086	1.8	3,345
Lighting Control Measures			1,835	0.5	0	\$324	\$2,586	\$365	\$2,221	6.9	1,802
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	1,835	0.5	0	\$324	\$2,586	\$365	\$2,221	6.9	1,802
Motor Upgrades			491	0.2	0	\$88	\$4,038	\$0	\$4,038	45.8	494
ECM 4	Premium Efficiency Motors	No	491	0.2	0	\$88	\$4,038	\$0	\$4,038	45.8	494
Variable Frequency Drive (VFD) Measures			12,200	2.8	0	\$2,190	\$16,073	\$3,600	\$12,473	5.7	12,286
ECM 5	Install VFDs on Chilled Water Pumps	No	2,890	1.9	0	\$519	\$8,036	\$1,800	\$6,236	12.0	2,910
ECM 6	Install VFDs on Heating Water Pumps	Yes	9,310	1.0	0	\$1,671	\$8,036	\$1,800	\$6,236	3.7	9,375
Electric Chiller Replacement			4,903	12.3	0	\$880	\$81,436	\$6,300	\$75,136	85.4	4,938
ECM 7	Install High Efficiency Chillers	No	4,903	12.3	0	\$880	\$81,436	\$6,300	\$75,136	85.4	4,938
Gas Heating (HVAC/Process) Replacement			0	0.0	5	\$62	\$11,555	\$1,000	\$10,555	169.3	528
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	5	\$62	\$11,555	\$1,000	\$10,555	169.3	528
Domestic Water Heating Upgrade			900	0.0	0	\$161	\$72	\$30	\$42	0.3	906
ECM 9	Install Low-Flow DHW Devices	Yes	900	0.0	0	\$161	\$72	\$30	\$42	0.3	906
TOTALS			40,727	18.0	2	\$7,334	\$121,802	\$11,693	\$110,110	15.0	41,221

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HAMMONTON HUMAN SERVICES



#	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 (lbs)
Lighting Upgrades			3,762	1.3	-1	\$783	\$2,072	\$460	\$1,612	2.1	3,696
ECM 1	Retrofit Fixtures with LED Lamps	Yes	3,762	1.3	-1	\$783	\$2,072	\$460	\$1,612	2.1	3,696
Lighting Control Measures			1,565	0.5	0	\$326	\$3,770	\$725	\$3,045	9.3	1,538
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	1,198	0.4	0	\$249	\$3,320	\$480	\$2,840	11.4	1,177
ECM 3	Install High/Low Lighting Controls	Yes	367	0.0	0	\$76	\$450	\$245	\$205	2.7	361
Unitary HVAC Measures			11,239	7.5	0	\$2,373	\$50,402	\$2,734	\$47,668	20.1	11,318
ECM 4	Install High Efficiency Air Conditioning Units	No	1,239	7.5	0	\$2,373	\$50,402	\$2,734	\$47,668	20.1	11,318
Gas Heating (HVAC/Process) Replacement			0	0.0	27	\$386	\$12,947	\$569	\$12,378	32.0	3,190
ECM 5	Install High Efficiency Hot Water Boilers	No	0	0.0	27	\$386	\$12,947	\$569	\$12,378	32.0	3,190
Domestic Water Heating Upgrade			0	0.0	4	\$59	\$143	\$72	\$72	1.2	490
ECM 6	Install Low-Flow DHW Devices	Yes	0	0.0	4	\$59	\$143	\$72	\$72	1.2	490
Food Service & Refrigeration Measures			3,224	0.4	0	\$681	\$460	\$100	\$360	0.5	3,246
ECM 7	Vending Machine Control	Yes	3,224	0.4	0	\$681	\$460	\$100	\$360	0.5	3,246
TOTALS (COST EFFECTIVE MEASURES)			8,551	2.1	3	\$1,849	\$6,446	\$1,357	\$5,089	2.8	8,970
TOTALS (ALL MEASURES)			19,790	9.6	30	\$4,609	\$69,795	\$4,659	\$65,136	14.1	23,478

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

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

HAMMONTON PUBLIC LIBRARY



#	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 (lbs)
Lighting Upgrades			114	0.0	0	\$19	\$404	\$0	\$404	20.8	115
ECM 1	Install LED Fixtures	Yes	114	0.0	0	\$19	\$404	\$0	\$404	20.8	115
Lighting Control Measures			2,213	0.5	-1	\$370	\$2,160	\$280	\$1,880	5.1	2,169
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	2,213	0.5	-1	\$370	\$2,160	\$280	\$1,880	5.1	2,169
Domestic Water Heating Upgrade			352	0.0	0	\$60	\$36	\$15	\$21	0.4	354
ECM 3	Install Low-Flow DHW Devices	Yes	352	0.0	0	\$60	\$36	\$15	\$21	0.4	354
TOTALS (COST EFFECTIVE MEASURES)			2,678	0.5	-1	\$449	\$2,600	\$295	\$2,305	5.1	2,637
TOTALS (ALL MEASURES)			2,678	0.5	-1	\$449	\$2,600	\$295	\$2,305	5.1	2,637

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

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

HAMMONTON PUBLIC WORKS

#	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 (lbs)
Lighting Upgrades			5,395	1.3	0	\$848	\$4,590	\$710	\$3,880	4.6	5,433
ECM 1	Install LED Fixtures	Yes	2,251	0.2	0	\$354	\$3,092	\$300	\$2,792	7.9	2,266
ECM 2	Retrofit Fixtures with LED Lamps	Yes	3,145	1.1	0	\$494	\$1,497	\$410	\$1,087	2.2	3,167
Lighting Control Measures			829	0.3	0	\$130	\$1,660	\$240	\$1,420	10.9	835
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	829	0.3	0	\$130	\$1,660	\$240	\$1,420	10.9	835
Variable Frequency Drive (VFD) Measures			3,516	0.9	0	\$553	\$4,842	\$200	\$4,642	8.4	3,541
ECM 4	Install VFDs on Constant Volume (CV) Fans	Yes	3,516	0.9	0	\$553	\$4,842	\$200	\$4,642	8.4	3,541
Gas Heating (HVAC/Process) Replacement			0	0.0	150	\$2,078	\$19,762	\$4,000	\$15,762	7.6	17,525
ECM 5	Install Infrared Heaters	Yes	0	0.0	150	\$2,078	\$19,762	\$4,000	\$15,762	7.6	17,525
HVAC System Improvements			617	0.0	0	\$97	\$119	\$20	\$99	1.0	622
ECM 6	Install Pipe Insulation	Yes	617	0.0	0	\$97	\$119	\$20	\$99	1.0	622
Domestic Water Heating Upgrade			493	0.0	0	\$78	\$200	\$41	\$159	2.1	497
ECM 7	Install Low-Flow DHW Devices	Yes	493	0.0	0	\$78	\$200	\$41	\$159	2.1	497
Food Service & Refrigeration Measures			1,954	0.2	0	\$307	\$460	\$50	\$410	1.3	1,968
ECM 8	Vending Machine Control	Yes	1,954	0.2	0	\$307	\$460	\$50	\$410	1.3	1,968
Custom Measures			3,705	0.0	0	\$583	\$2,070	\$0	\$2,070	3.6	3,731
ECM 9	Replace Electric Water Heater with Heat Pump Water Heater	Yes	3,705	0.0	0	\$583	\$2,070	\$0	\$2,070	3.6	3,731
TOTALS (COST EFFECTIVE MEASURES)			16,511	2.7	150	\$4,674	\$33,703	\$5,261	\$28,442	6.1	34,152
TOTALS (ALL MEASURES)			16,511	2.7	150	\$4,674	\$33,703	\$5,261	\$28,442	6.1	34,152

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

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

HARBORFIELDS JUVENILE DETENTION 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 (lbs)
Lighting Upgrades			43,174	5.9	-9	\$5,678	\$11,680	\$2,084	\$9,596	1.7	42,471
ECM 1	Install LED Fixtures	Yes	12,775	1.6	-2	\$1,686	\$5,453	\$550	\$4,903	2.9	12,618
ECM 2	Retrofit Fixtures with LED Lamps	Yes	30,399	4.3	-6	\$3,992	\$6,227	\$1,534	\$4,693	1.2	29,853
Lighting Control Measures			10,367	1.4	-2	\$1,361	\$10,174	\$2,720	\$7,454	5.5	10,181
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	7,223	1.1	-2	\$949	\$7,474	\$1,075	\$6,399	6.7	7,094
ECM 4	Install High/Low Lighting Controls	Yes	3,144	0.3	-1	\$413	\$2,700	\$1,645	\$1,055	2.6	3,088
Variable Frequency Drive (VFD) Measures			20,156	2.2	45	\$3,312	\$31,350	\$600	\$30,750	9.3	25,548
ECM 5	Install VFDs on Constant Volume (CV) Fans	No	15,388	2.2	0	\$2,065	\$27,463	\$525	\$26,938	13.0	15,496
ECM 6	Install VFDs on Kitchen Hood Fan Motors	Yes	4,768	0.0	45	\$1,247	\$3,887	\$75	\$3,812	3.1	10,052
Unitary HVAC Measures			30,778	10.3	9	\$4,251	\$39,415	\$1,288	\$38,127	9.0	32,038
ECM 7	Install High Efficiency Air Conditioning Units	No	8,161	2.3	9	\$1,216	\$36,251	\$1,288	\$34,964	28.8	9,263
ECM 8	Install High Efficiency Heat Pumps	Yes	22,616	8.0	0	\$3,035	\$3,164	\$0	\$3,164	1.0	22,774
Gas Heating (HVAC/Process) Replacement			0	0.0	34	\$461	\$4,142	\$500	\$3,642	7.9	3,988
ECM 9	Install High Efficiency Furnaces	Yes	0	0.0	34	\$461	\$4,142	\$500	\$3,642	7.9	3,988
HVAC System Improvements			0	0.0	8	\$106	\$193	\$25	\$168	1.6	918
ECM 10	Install Pipe Insulation	Yes	0	0.0	8	\$106	\$193	\$25	\$168	1.6	918
Domestic Water Heating Upgrade			0	0.0	9	\$122	\$136	\$68	\$68	0.6	1,056
ECM 11	Install Low-Flow DHW Devices	Yes	0	0.0	9	\$122	\$136	\$68	\$68	0.6	1,056
Food Service & Refrigeration Measures			2,299	0.1	0	\$308	\$4,258	\$270	\$3,988	12.9	2,315
ECM 12	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	786	0.1	0	\$105	\$910	\$120	\$790	7.5	792
ECM 13	Refrigeration Controls	No	1,513	0.0	0	\$203	\$3,348	\$150	\$3,198	15.8	1,523
Custom Measures			4,213	0.0	338	\$5,135	\$16,422	\$0	\$16,422	3.2	43,789
ECM 14	Retro-Commissioning Study	Yes	25,245	0.0	114	\$4,927	\$9,400	\$0	\$9,400	1.9	38,740
ECM 15	Replace Gas Fired Water Heater with Heat Pump Water Heater	No	-21,032	0.0	224	\$208	\$7,022	\$0	\$7,022	33.8	5,049
TOTALS (COST EFFECTIVE MEASURES)			106,956	15.4	199	\$17,043	\$43,686	\$5,592	\$38,094	2.2	130,973
TOTALS (ALL MEASURES)			110,986	19.9	432	\$20,735	\$117,770	\$7,555	\$110,216	5.3	162,303

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

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

JOHN GAFFNEY GREEN TREE GOLF COURSE

#	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 (lbs)
Lighting Upgrades			6,755	1.6	-3	\$1,118	\$1,831	\$427	\$1,404	1.3	6,387
ECM 1	Retrofit Fixtures with LED Lamps	Yes	6,755	1.6	-3	\$1,118	\$1,831	\$427	\$1,404	1.3	6,387
Lighting Control Measures			2,136	0.5	-1	\$354	\$2,572	\$460	\$2,112	6.0	2,020
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	2,136	0.5	-1	\$354	\$2,572	\$460	\$2,112	6.0	2,020
Motor Upgrades			198	0.0	0	\$35	\$469	\$0	\$469	13.4	200
ECM 3	Premium Efficiency Motors	Yes	198	0.0	0	\$35	\$469	\$0	\$469	13.4	200
Variable Frequency Drive (VFD) Measures			1,573	0.0	20	\$796	\$2,667	\$50	\$2,617	3.3	4,484
ECM 4	Install VFDs on Kitchen Hood Fan Motors	Yes	1,573	0.0	20	\$796	\$2,667	\$50	\$2,617	3.3	4,484
Unitary HVAC Measures			4,249	2.2	0	\$750	\$33,752	\$1,348	\$32,405	43.2	4,279
ECM 5	Install High Efficiency Heat Pumps	No	4,249	2.2	0	\$750	\$33,752	\$1,348	\$32,405	43.2	4,279
Gas Heating (HVAC/Process) Replacement			0	0.0	4	\$97	\$9,065	\$1,000	\$8,065	83.4	541
ECM 6	Install High Efficiency Furnaces	No	0	0.0	4	\$97	\$9,065	\$1,000	\$8,065	83.4	541
HVAC System Improvements			0	0.0	1	\$13	\$239	\$40	\$199	15.7	71
ECM 7	Install Pipe Insulation	Yes	0	0.0	1	\$13	\$239	\$40	\$199	15.7	71
Domestic Water Heating Upgrade			0	0.0	1	\$34	\$50	\$25	\$25	0.7	188
ECM 8	Install Low-Flow DHW Devices	Yes	0	0.0	1	\$34	\$50	\$25	\$25	0.7	188
Food Service & Refrigeration Measures			20,350	2.3	0	\$3,592	\$24,960	\$1,000	\$23,960	6.7	20,492
ECM 9	Dishwasher Replacement	Yes	9,072	1.0	0	\$1,601	\$9,270	\$700	\$8,570	5.4	9,136
ECM 10	Replace Refrigeration Equipment	Yes	11,277	1.3	0	\$1,990	\$15,690	\$300	\$15,390	7.7	11,356
Custom Measures			-469	0.0	5	\$44	\$3,010	\$0	\$3,010	68.4	236
ECM 11	Replace Gas Fired Water Heater with Heat Pump Water Heater	No	-469	0.0	5	\$44	\$3,010	\$0	\$3,010	68.4	236
TOTALS (COST EFFECTIVE MEASURES)			31,013	4.5	18	\$5,940	\$32,787	\$2,002	\$30,785	5.2	33,842
TOTALS (ALL MEASURES)			34,793	6.6	27	\$6,831	\$78,614	\$4,350	\$74,265	10.9	38,898

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

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

MAYS LANDING LIBRARY

#	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 (lbs)
Lighting Upgrades			53,483	12.8	-11	\$8,459	\$19,677	\$4,625	\$15,052	1.8	52,607
ECM 1	Install LED Fixtures	Yes	3,946	0.9	-1	\$623	\$2,080	\$35	\$2,045	3.3	3,876
ECM 2	Retrofit Fixtures with LED Lamps	Yes	49,537	11.9	-10	\$7,836	\$17,597	\$4,590	\$13,007	1.7	48,731
Lighting Control Measures			15,346	3.8	-3	\$2,424	\$14,620	\$3,755	\$10,865	4.5	15,071
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	13,035	3.3	-3	\$2,059	\$10,570	\$1,200	\$9,370	4.6	12,801
ECM 4	Install High/Low Lighting Controls	Yes	2,312	0.5	0	\$365	\$4,050	\$2,555	\$1,495	4.1	2,270
Variable Frequency Drive (VFD) Measures			31,127	6.3	0	\$5,011	\$45,455	\$2,025	\$43,430	8.7	31,345
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	25,357	5.6	0	\$4,082	\$29,908	\$1,725	\$28,183	6.9	25,534
ECM 6	Install VFDs on Heating Water Pumps	No	5,770	0.7	0	\$929	\$15,547	\$300	\$15,247	16.4	5,811
Unitary HVAC Measures			23,842	14.2	0	\$3,838	\$99,137	\$5,583	\$93,554	24.4	24,009
ECM 7	Install High Efficiency Air Conditioning Units	No	23,842	14.2	0	\$3,838	\$99,137	\$5,583	\$93,554	24.4	24,009
Gas Heating (HVAC/Process) Replacement			0	0.0	67	\$945	\$36,681	\$2,385	\$34,296	36.3	7,863
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	67	\$945	\$36,681	\$2,385	\$34,296	36.3	7,863
Domestic Water Heating Upgrade			0	0.0	3	\$42	\$1,120	\$126	\$994	23.7	349
ECM 9	Install High Efficiency Gas-Fired Water Heater	No	0	0.0	2	\$29	\$1,106	\$119	\$987	34.6	238
ECM 10	Install Low-Flow DHW Devices	Yes	0	0.0	1	\$13	\$14	\$7	\$7	0.5	111
TOTALS (COST EFFECTIVE MEASURES)			94,186	22.3	-13	\$14,979	\$64,219	\$10,112	\$54,107	3.6	93,323
TOTALS (ALL MEASURES)			123,799	37.1	56	\$20,719	\$216,690	\$18,498	\$198,191	9.6	131,243

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

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

MEADOWVIEW REHABILITATION CENTER & CRONIN DENTAL

#	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 (lbs)
Lighting Upgrades			147,122	17.8	-31	\$19,976	\$33,958	\$5,596	\$28,362	1.4	144,573
ECM 1	Install LED Fixtures	Yes	2,533	0.0	0	\$350	\$692	\$100	\$592	1.7	2,551
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,104	0.0	0	\$152	\$404	\$40	\$364	2.4	1,111
ECM 3	Retrofit Fixtures with LED Lamps	Yes	133,495	16.9	-28	\$18,118	\$29,676	\$5,456	\$24,220	1.3	131,099
ECM 4	Install LED Exit Signs	Yes	9,991	0.9	-2	\$1,356	\$3,186	\$0	\$3,186	2.3	9,811
Lighting Control Measures			46,697	5.5	-10	\$6,339	\$29,833	\$10,550	\$19,283	3.0	45,869
ECM 5	Install Occupancy Sensor Lighting Controls	Yes	22,776	3.3	-5	\$3,091	\$20,658	\$2,680	\$17,978	5.8	22,368
ECM 6	Install Photocell Controls	Yes	392	0.0	0	\$54	\$400	\$0	\$400	7.4	395
ECM 7	Install High/Low Lighting Controls	Yes	23,529	2.2	-5	\$3,193	\$8,775	\$7,870	\$905	0.3	23,106
Variable Frequency Drive (VFD) Measures			44,031	7.4	0	\$6,082	\$51,666	\$2,700	\$48,966	8.1	44,339
ECM 8	Install VFDs on Constant Volume (CV) Fans	Yes	44,031	7.4	0	\$6,082	\$51,666	\$2,700	\$48,966	8.1	44,339
Unitary HVAC Measures			38,186	10.6	15	\$5,442	\$99,006	\$5,511	\$93,495	17.2	40,197
ECM 9	Install High Efficiency Air Conditioning Units	Yes	38,186	10.6	15	\$5,442	\$99,006	\$5,511	\$93,495	17.2	40,197
HVAC System Improvements			0	0.0	16	\$181	\$333	\$50	\$283	1.6	1,880
ECM 10	Install Pipe Insulation	Yes	0	0.0	16	\$181	\$333	\$50	\$283	1.6	1,880
Domestic Water Heating Upgrade			278	0.0	148	\$1,711	\$8,671	\$1,880	\$6,790	4.0	17,647
ECM 11	Install Low-Flow DHW Devices	Yes	278	0.0	148	\$1,711	\$8,671	\$1,880	\$6,790	4.0	17,647
Food Service & Refrigeration Measures			4,294	0.5	0	\$593	\$6,252	\$375	\$5,877	9.9	4,324
ECM 12	Replace Refrigeration Equipment	No	2,340	0.3	0	\$323	\$5,792	\$325	\$5,467	16.9	2,356
ECM 13	Vending Machine Control	Yes	1,954	0.2	0	\$270	\$460	\$50	\$410	1.5	1,968
Custom Measures			-28,042	0.0	299	-\$502	\$7,000	\$0	\$7,000	-13.9	6,771
ECM 14	Replace Gas Fired Water Heater with Heat Pump Water Heater	No	-28,042	0.0	299	-\$502	\$7,000	\$0	\$7,000	-13.9	6,771
TOTALS (COST EFFECTIVE MEASURES)			278,269	41.6	139	\$40,000	\$223,926	\$26,337	\$197,589	4.9	296,472
TOTALS (ALL MEASURES)			252,567	41.8	438	\$39,821	\$236,718	\$26,662	\$210,056	5.3	305,600

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

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

*** - Negative payback explained in section 4.8

PUBLIC WORKS PLANNING & ENGINEERING

#	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 (lbs)
Lighting Upgrades			10,657	2.9	-2	\$1,743	\$5,900	\$1,031	\$4,869	2.8	10,481
ECM 1	Install LED Fixtures	Yes	428	0.0	0	\$71	\$332	\$50	\$282	4.0	431
ECM 2	Retrofit Fixtures with LED Lamps	Yes	8,148	2.7	-2	\$1,332	\$4,744	\$981	\$3,763	2.8	8,005
ECM 3	Install LED Exit Signs	Yes	2,081	0.2	0	\$340	\$824	\$0	\$824	2.4	2,045
Lighting Control Measures			2,376	0.8	0	\$388	\$4,546	\$975	\$3,571	9.2	2,335
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	1,271	0.5	0	\$208	\$3,168	\$345	\$2,823	13.6	1,249
ECM 5	Install High/Low Lighting Controls	Yes	1,105	0.2	0	\$181	\$1,378	\$630	\$748	4.1	1,086
Variable Frequency Drive (VFD) Measures			16,642	2.7	0	\$2,768	\$17,470	\$1,125	\$16,345	5.9	16,758
ECM 6	Install VFDs on Constant Volume (CV) Fans	Yes	16,642	2.7	0	\$2,768	\$17,470	\$1,125	\$16,345	5.9	16,758
Unitary HVAC Measures			9,934	5.5	49	\$2,318	\$48,988	\$2,246	\$46,742	20.2	15,710
ECM 7	Install High Efficiency Air Conditioning Units	No	9,934	5.5	49	\$2,318	\$48,988	\$2,246	\$46,742	20.2	15,710
Gas Heating (HVAC/Process) Replacement			0	0.0	66	\$901	\$21,608	\$876	\$20,732	23.0	7,727
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	66	\$901	\$21,608	\$876	\$20,732	23.0	7,727
HVAC System Improvements			1,055	0.0	49	\$847	\$1,399	\$160	\$1,239	1.5	6,816
ECM 9	Install Pipe Insulation	Yes	1,055	0.0	49	\$847	\$1,399	\$160	\$1,239	1.5	6,816
Domestic Water Heating Upgrade			1,213	0.0	0	\$202	\$268	\$56	\$212	1.1	1,221
ECM 10	Install Low-Flow DHW Devices	Yes	1,213	0.0	0	\$202	\$268	\$56	\$212	1.1	1,221
Food Service & Refrigeration Measures			1,954	0.2	0	\$325	\$535	\$50	\$485	1.5	1,968
ECM 11	Vending Machine Control	Yes	1,954	0.2	0	\$325	\$535	\$50	\$485	1.5	1,968
Custom Measures			6,331	0.0	0	\$1,053	\$2,101	\$0	\$2,101	2.0	6,375
ECM 12	Replace Electric Water Heater with Heat Pump Water Heater	Yes	6,331	0.0	0	\$1,053	\$2,101	\$0	\$2,101	2.0	6,375
TOTALS (COST EFFECTIVE MEASURES)			40,228	6.5	47	\$7,325	\$32,219	\$3,397	\$28,822	3.9	45,954
TOTALS (ALL MEASURES)			50,162	12.0	161	\$10,544	\$102,814	\$6,519	\$96,296	9.1	69,391

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

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

PUBLIC WORKS FLEET MANAGEMENT

#	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 (lbs)
Lighting Upgrades			6,599	1.4	-1	\$1,072	\$3,790	\$631	\$3,159	2.9	6,474
ECM 1	Install LED Fixtures	Yes	2,151	0.3	0	\$350	\$1,486	\$150	\$1,336	3.8	2,114
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	237	0.1	0	\$38	\$163	\$20	\$143	3.7	232
ECM 3	Retrofit Fixtures with LED Lamps	Yes	4,212	1.0	-1	\$684	\$2,141	\$461	\$1,680	2.5	4,128
Lighting Control Measures			5,435	1.3	-1	\$882	\$3,246	\$555	\$2,691	3.1	5,326
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	5,021	1.3	-1	\$815	\$2,695	\$310	\$2,385	2.9	4,921
ECM 5	Install High/Low Lighting Controls	Yes	413	0.1	0	\$67	\$551	\$245	\$306	4.6	405
Gas Heating (HVAC/Process) Replacement			0	0.0	30	\$410	\$21,559	\$875	\$20,684	50.5	3,502
ECM 6	Install High Efficiency Hot Water Boilers	No	0	0.0	30	\$410	\$21,559	\$875	\$20,684	50.5	3,502
HVAC System Improvements			633	0.0	20	\$380	\$836	\$100	\$736	1.9	2,988
ECM 7	Install Pipe Insulation	Yes	633	0.0	20	\$380	\$836	\$100	\$736	1.9	2,988
Domestic Water Heating Upgrade			1,073	0.0	0	\$178	\$172	\$47	\$125	0.7	1,081
ECM 8	Install Low-Flow DHW Devices	Yes	1,073	0.0	0	\$178	\$172	\$47	\$125	0.7	1,081
Custom Measures			3,798	0.0	0	\$628	\$2,475	\$0	\$2,475	3.9	3,825
ECM 9	Replace Electric Water Heater with Heat Pump Water Heater	Yes	3,798	0.0	0	\$628	\$2,475	\$0	\$2,475	3.9	3,825
TOTALS (COST EFFECTIVE MEASURES)			17,539	2.7	17	\$3,139	\$10,519	\$1,333	\$9,186	2.9	19,693
TOTALS (ALL MEASURES)			17,539	2.7	47	\$3,549	\$32,078	\$2,208	\$29,870	8.4	23,196

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

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

PUBLIC WORKS MOSQUITO BUILDING

#	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 (lbs)
Lighting Upgrades			1,416	0.6	0	\$247	\$766	\$190	\$576	2.3	1,392
ECM 1	Retrofit Fixtures with LED Lamps	Yes	1,416	0.6	0	\$247	\$766	\$190	\$576	2.3	1,392
Lighting Control Measures			488	0.2	0	\$86	\$1,280	\$140	\$1,140	13.3	481
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	396	0.2	0	\$69	\$1,080	\$140	\$940	13.6	390
ECM 3	Install Photocell Controls	Yes	91	0.0	0	\$16	\$200	\$0	\$200	12.2	92
Variable Frequency Drive (VFD) Measures			1,054	0.3	0	\$189	\$6,602	\$100	\$6,502	34.4	1,062
ECM 4	Install VFDs on Constant Volume (CV) Fans	No	1,054	0.3	0	\$189	\$6,602	\$100	\$6,502	34.4	1,062
Domestic Water Heating Upgrade			695	0.0	0	\$125	\$36	\$18	\$18	0.1	700
ECM 5	Install Low-Flow DHW Devices	Yes	695	0.0	0	\$125	\$36	\$18	\$18	0.1	700
TOTALS (COST EFFECTIVE MEASURES)			2,599	0.7	0	\$458	\$2,082	\$348	\$1,734	3.8	2,573
TOTALS (ALL MEASURES)			3,653	1.0	0	\$647	\$8,684	\$448	\$8,236	12.7	3,634

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

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

RUTGERS/EXTENSION SERVICES 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 (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			23,233	9.5	-5	\$4,366	\$11,016	\$2,878	\$8,138	1.9	22,852
ECM 1	Install LED Fixtures	Yes	635	0.0	0	\$121	\$346	\$50	\$296	2.4	640
ECM 2	Retrofit Fixtures with LED Lamps	Yes	22,598	9.5	-5	\$4,245	\$10,670	\$2,828	\$7,842	1.8	22,212
Lighting Control Measures			5,693	2.3	-1	\$1,069	\$11,467	\$2,855	\$8,612	8.1	5,594
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	4,575	1.9	-1	\$859	\$8,992	\$1,105	\$7,887	9.2	4,495
ECM 4	Install High/Low Lighting Controls	Yes	1,118	0.4	0	\$210	\$2,475	\$1,750	\$725	3.5	1,098
Variable Frequency Drive (VFD) Measures			14,698	3.7	0	\$2,803	\$38,322	\$800	\$37,522	13.4	14,800
ECM 5	Install VFDs on Constant Volume (CV) Fans	No	10,851	3.3	0	\$2,069	\$29,959	\$600	\$29,359	14.2	10,927
ECM 6	Install VFDs on Heating Water Pumps	No	3,847	0.4	0	\$734	\$8,363	\$200	\$8,163	11.1	3,874
Unitary HVAC Measures			17,764	14.8	0	\$3,387	\$82,234	\$5,061	\$77,173	22.8	17,888
ECM 7	Install High Efficiency Air Conditioning Units	No	17,764	14.8	0	\$3,387	\$82,234	\$5,061	\$77,173	22.8	17,888
Gas Heating (HVAC/Process) Replacement			0	0.0	64	\$890	\$42,014	\$2,000	\$40,014	44.9	7,504
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	64	\$890	\$42,014	\$2,000	\$40,014	44.9	7,504
Domestic Water Heating Upgrade			834	0.0	0	\$159	\$43	\$22	\$22	0.1	840
ECM 9	Install Low-Flow DHW Devices	Yes	834	0.0	0	\$159	\$43	\$22	\$22	0.1	840
Custom Measures			6,459	0.0	39	\$1,772	\$25,389	\$0	\$25,389	14.3	11,060
ECM 10	Upgrade/Replace Energy Management System	No	3,927	0.0	39	\$1,289	\$23,319	\$0	\$23,319	18.1	8,511
ECM 11	Replace Electric Water Heater with Heat Pump Water Heater	Yes	2,532	0.0	0	\$483	\$2,070	\$0	\$2,070	4.3	2,550
TOTALS (COST EFFECTIVE MEASURES)			32,293	11.8	-6	\$6,077	\$24,596	\$5,755	\$18,841	3.1	31,835
TOTALS (ALL MEASURES)			68,681	30.3	97	\$14,446	\$210,485	\$13,616	\$196,870	13.6	80,539

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

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

SHOREVIEW BUILDING

#	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 (lbs)
Lighting Upgrades			26,647	9.1	-5	\$4,665	\$13,595	\$3,244	\$10,351	2.2	26,193
ECM 1	Install LED Fixtures	Yes	495	0.0	0	\$88	\$471	\$50	\$421	4.8	498
ECM 2	Retrofit Fixtures with LED Lamps	Yes	23,145	8.8	-5	\$4,051	\$12,183	\$3,194	\$8,989	2.2	22,741
ECM 3	Install LED Exit Signs	Yes	3,006	0.3	-1	\$526	\$941	\$0	\$941	1.8	2,954
Lighting Control Measures			7,241	2.7	-2	\$1,267	\$11,324	\$2,450	\$8,874	7.0	7,114
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	7,241	2.7	-2	\$1,267	\$11,324	\$2,450	\$8,874	7.0	7,114
Variable Frequency Drive (VFD) Measures			22,696	10.7	0	\$4,048	\$310,763	\$5,050	\$305,713	75.5	22,854
ECM 5	Install VFDs on Constant Volume (CV) Fans	No	22,696	10.7	0	\$4,048	\$310,763	\$5,050	\$305,713	75.5	22,854
Domestic Water Heating Upgrade			2,683	0.0	0	\$479	\$161	\$48	\$113	0.2	2,702
ECM 6	Install Low-Flow DHW Devices	Yes	2,683	0.0	0	\$479	\$161	\$48	\$113	0.2	2,702
Food Service & Refrigeration Measures			1,954	0.2	0	\$349	\$460	\$50	\$410	1.2	1,968
ECM 7	Vending Machine Control	Yes	1,954	0.2	0	\$349	\$460	\$50	\$410	1.2	1,968
Custom Measures			1,688	0.0	0	\$301	\$2,070	\$0	\$2,070	6.9	1,700
ECM 8	Replace Electric Water Heater with Heat Pump Water Heater	Yes	1,688	0.0	0	\$301	\$2,070	\$0	\$2,070	6.9	1,700
TOTALS (COST EFFECTIVE MEASURES)			40,213	12.0	-7	\$7,060	\$27,610	\$5,792	\$21,818	3.1	39,677
TOTALS (ALL MEASURES)			62,909	22.7	-7	\$11,109	\$338,373	\$10,842	\$327,531	29.5	62,531

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

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

STILLWATER CAMPUS

#	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 (lbs)
Lighting Upgrades			99,472	17.7	-19	\$13,762	\$29,532	\$7,299	\$22,233	1.6	97,904
ECM 1	Install LED Fixtures	Yes	6,644	0.0	0	\$937	\$3,903	\$1,100	\$2,803	3.0	6,690
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	3,689	0.8	-1	\$510	\$1,287	\$200	\$1,087	2.1	3,625
ECM 3	Retrofit Fixtures with LED Lamps	Yes	84,051	16.4	-18	\$11,613	\$22,748	\$5,999	\$16,749	1.4	82,590
ECM 4	Install LED Exit Signs	Yes	5,088	0.5	-1	\$703	\$1,593	\$0	\$1,593	2.3	4,999
Lighting Control Measures			26,664	5.2	-6	\$3,684	\$15,183	\$3,895	\$11,288	3.1	26,197
ECM 5	Install Occupancy Sensor Lighting Controls	Yes	22,521	4.4	-5	\$3,111	\$11,808	\$1,620	\$10,188	3.3	22,128
ECM 6	Install High/Low Lighting Controls	Yes	4,142	0.8	-1	\$572	\$3,375	\$2,275	\$1,100	1.9	4,070
Variable Frequency Drive (VFD) Measures			139,656	25.6	0	\$19,691	\$150,813	\$8,175	\$142,638	7.2	140,632
ECM 7	Install VFDs on Constant Volume (CV) Fans	No	110,908	21.7	0	\$15,638	\$137,420	\$5,975	\$131,445	8.4	111,683
ECM 8	Install VFDs on Chilled Water Pumps	Yes	28,748	3.9	0	\$4,053	\$13,393	\$2,200	\$11,193	2.8	28,949
HVAC System Improvements			2,121	0.0	15	\$508	\$505	\$80	\$425	0.8	3,934
ECM 9	Install Pipe Insulation	Yes	2,121	0.0	15	\$508	\$505	\$80	\$425	0.8	3,934
Domestic Water Heating Upgrade			7,104	0.0	4	\$1,061	\$1,477	\$390	\$1,087	1.0	7,664
ECM 10	Install Low-Flow DHW Devices	Yes	7,104	0.0	4	\$1,061	\$1,477	\$390	\$1,087	1.0	7,664
Food Service & Refrigeration Measures			22,884	1.7	0	\$3,227	\$25,217	\$2,000	\$23,217	7.2	23,044
ECM 11	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	5,243	0.6	0	\$739	\$6,066	\$800	\$5,266	7.1	5,279
ECM 12	Refrigeration Controls	No	10,166	0.2	0	\$1,433	\$17,541	\$1,000	\$16,541	11.5	10,238
ECM 13	Vending Machine Control	Yes	7,475	0.9	0	\$1,054	\$1,610	\$200	\$1,410	1.3	7,527
Custom Measures			89,167	0.0	560	\$20,207	\$196,405	\$0	\$196,405	9.7	155,370
ECM 14	Installation of an Energy Management System	No	55,404	0.0	488	\$14,465	\$177,474	\$0	\$177,474	12.3	112,940
ECM 15	Replace Electric Water Heater with Heat Pump Water Heater	Yes	40,516	0.0	0	\$5,713	\$15,263	\$0	\$15,263	2.7	40,799
ECM 16	Replace Gas Fired Water Heater with Heat Pump Water Heater	No	-6,753	0.0	72	\$29	\$3,668	\$0	\$3,668	126.5	1,630
TOTALS (COST EFFECTIVE MEASURES)			217,343	28.4	-5	\$30,574	\$83,029	\$14,864	\$68,165	2.2	218,254
TOTALS (ALL MEASURES)			387,068	50.3	555	\$62,140	\$419,132	\$21,839	\$397,292	6.4	454,745

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

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

SUPERINTENDENT OF ELECTIONS

#	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 (lbs)
Lighting Upgrades			6,345	2.4	-1	\$1,108	\$3,323	\$884	\$2,439	2.2	6,234
ECM 1	Retrofit Fixtures with LED Lamps	Yes	6,345	2.4	-1	\$1,108	\$3,323	\$884	\$2,439	2.2	6,234
Lighting Control Measures			2,007	0.8	0	\$350	\$2,238	\$270	\$1,968	5.6	1,972
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	2,007	0.8	0	\$350	\$2,238	\$270	\$1,968	5.6	1,972
Gas Heating (HVAC/Process) Replacement			0	0.0	21	\$300	\$12,957	\$630	\$12,327	41.1	2,418
ECM 3	Install High Efficiency Hot Water Boilers	No	0	0.0	21	\$300	\$12,957	\$630	\$12,327	41.1	2,418
HVAC System Improvements			113	0.0	0	\$20	\$239	\$20	\$219	10.9	113
ECM 4	Install Pipe Insulation	Yes	113	0.0	0	\$20	\$239	\$20	\$219	10.9	113
Domestic Water Heating Upgrade			417	0.0	0	\$74	\$22	\$11	\$11	0.1	420
ECM 5	Install Low-Flow DHW Devices	Yes	417	0.0	0	\$74	\$22	\$11	\$11	0.1	420
TOTALS (COST EFFECTIVE MEASURES)			8,881	3.2	-2	\$1,553	\$5,821	\$1,185	\$4,637	3.0	8,739
TOTALS (ALL MEASURES)			8,881	3.2	19	\$1,853	\$18,779	\$1,815	\$16,964	9.2	11,156

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

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

FACILITIES MANAGEMENT

#	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 (lbs)
Lighting Upgrades			4,273	1.4	-1	\$810	\$2,811	\$689	\$2,122	2.6	4,197
ECM 1	Install LED Fixtures	Yes	324	0.0	0	\$62	\$206	\$50	\$156	2.5	326
ECM 2	Retrofit Fixtures with LED Lamps	Yes	3,949	1.4	-1	\$747	\$2,605	\$639	\$1,966	2.6	3,871
Lighting Control Measures			5,591	1.4	-1	\$1,058	\$7,270	\$1,135	\$6,135	5.8	5,479
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	5,231	1.3	-1	\$990	\$6,370	\$785	\$5,585	5.6	5,126
ECM 4	Install High/Low Lighting Controls	Yes	360	0.1	0	\$68	\$900	\$350	\$550	8.1	353
Variable Frequency Drive (VFD) Measures			3,130	0.5	0	\$602	\$7,774	\$150	\$7,624	12.7	3,152
ECM 5	Install VFDs on Heating Water Pumps	No	3,130	0.5	0	\$602	\$7,774	\$150	\$7,624	12.7	3,152
HVAC System Improvements			422	0.0	0	\$81	\$239	\$20	\$219	2.7	425
ECM 6	Install Pipe Insulation	Yes	422	0.0	0	\$81	\$239	\$20	\$219	2.7	425
Domestic Water Heating Upgrade			834	0.0	0	\$161	\$43	\$22	\$22	0.1	840
ECM 7	Install Low-Flow DHW Devices	Yes	834	0.0	0	\$161	\$43	\$22	\$22	0.1	840
TOTALS (COST EFFECTIVE MEASURES)			11,120	2.8	-2	\$2,109	\$10,363	\$1,866	\$8,497	4.0	10,941
TOTALS (ALL MEASURES)			14,250	3.3	-2	\$2,712	\$18,136	\$2,016	\$16,121	5.9	14,093

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

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

ONE STOP CAREER 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 (lbs)
Lighting Upgrades			123,572	23.4	-22	\$17,971	\$37,286	\$8,405	\$28,881	1.6	121,882
ECM 1	Install LED Fixtures	Yes	19,272	0.0	0	\$2,862	\$9,415	\$1,000	\$8,415	2.9	19,407
ECM 2	Retrofit Fixtures with LED Lamps	Yes	104,300	23.4	-22	\$15,109	\$27,872	\$7,405	\$20,467	1.4	102,475
Lighting Control Measures			29,787	6.6	-6	\$4,315	\$21,047	\$4,640	\$16,407	3.8	29,266
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	25,446	5.8	-5	\$3,686	\$17,672	\$2,330	\$15,342	4.2	25,000
ECM 4	Install High/Low Lighting Controls	Yes	4,341	0.8	-1	\$629	\$3,375	\$2,310	\$1,065	1.7	4,265
Motor Upgrades			328	0.1	0	\$49	\$1,793	\$0	\$1,793	36.8	330
ECM 5	Premium Efficiency Motors	No	328	0.1	0	\$49	\$1,793	\$0	\$1,793	36.8	330
Variable Frequency Drive (VFD) Measures			64,173	16.2	0	\$9,529	\$34,228	\$4,700	\$29,528	3.1	64,622
ECM 6	Install VFD on Variable Air Volume (VAV) Fans	Yes	64,173	16.2	0	\$9,529	\$34,228	\$4,700	\$29,528	3.1	64,622
Unitary HVAC Measures			68,299	26.3	3	\$10,186	\$212,135	\$11,475	\$200,660	19.7	69,071
ECM 7	Install High Efficiency Air Conditioning Units	No	65,520	25.2	3	\$9,773	\$207,805	\$11,475	\$196,330	20.1	66,273
ECM 8	Install High Efficiency Heat Pumps	Yes	2,779	1.1	0	\$413	\$4,330	\$0	\$4,330	10.5	2,799
Domestic Water Heating Upgrade			0	0.0	10	\$166	\$5,124	\$523	\$4,601	27.6	1,122
ECM 9	Install High Efficiency Gas-Fired Water Heater	No	0	0.0	1	\$10	\$4,988	\$455	\$4,533	462.0	66
ECM 10	Install Low-Flow DHW Devices	Yes	0	0.0	9	\$157	\$136	\$68	\$68	0.4	1,056
Food Service & Refrigeration Measures			1,612	0.2	0	\$239	\$230	\$50	\$180	0.8	1,623
ECM 11	Vending Machine Control	Yes	1,612	0.2	0	\$239	\$230	\$50	\$180	0.8	1,623
TOTALS (COST EFFECTIVE MEASURES)			221,922	47.5	-19	\$32,624	\$97,258	\$17,863	\$79,395	2.4	221,247
TOTALS (ALL MEASURES)			287,770	72.8	-16	\$42,456	\$311,844	\$29,793	\$282,050	6.6	287,916

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

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

VOTING MACHINE WAREHOUSE



#	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 (lbs)
Lighting Upgrades			10,656	1.0	-2	\$1,813	\$1,501	\$385	\$1,116	0.6	10,482
ECM 1	Retrofit Fixtures with LED Lamps	Yes	10,656	1.0	-2	\$1,813	\$1,501	\$385	\$1,116	0.6	10,482
Lighting Control Measures			18,070	1.8	-4	\$3,068	\$8,872	\$1,160	\$7,712	2.5	17,719
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	18,070	1.8	-4	\$3,068	\$8,872	\$1,160	\$7,712	2.5	17,719
Variable Frequency Drive (VFD) Measures			9,134	2.8	0	\$1,580	\$35,046	\$625	\$34,421	21.8	9,198
ECM 3	Install VFDs on Constant Volume (CV) Fans	No	9,134	2.8	0	\$1,580	\$35,046	\$625	\$34,421	21.8	9,198
Domestic Water Heating Upgrade			335	0.0	0	\$58	\$22	\$9	\$12	0.2	338
ECM 4	Install Low-Flow DHW Devices	Yes	335	0.0	0	\$58	\$22	\$9	\$12	0.2	338
TOTALS (COST EFFECTIVE MEASURES)			29,061	2.7	-6	\$4,939	\$10,394	\$1,554	\$8,840	1.8	28,538
TOTALS (ALL MEASURES)			38,194	5.6	-6	\$6,519	\$45,440	\$2,179	\$43,261	6.6	37,736

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

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

NATURE 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 (lbs)
Lighting Upgrades			1,058	1.1	0	\$188	\$1,537	\$345	\$1,192	6.3	1,065
ECM 1	Retrofit Fixtures with LED Lamps	Yes	1,058	1.1	0	\$188	\$1,537	\$345	\$1,192	6.3	1,065
Lighting Control Measures			220	0.2	0	\$39	\$1,736	\$230	\$1,506	38.5	222
ECM 2	Install Occupancy Sensor Lighting Controls	No	220	0.2	0	\$39	\$1,736	\$230	\$1,506	38.5	222
Variable Frequency Drive (VFD) Measures			795	1.1	0	\$141	\$11,722	\$225	\$11,497	81.3	801
ECM 3	Install VFDs on Constant Volume (CV) Fans	No	795	1.1	0	\$141	\$11,722	\$225	\$11,497	81.3	801
HVAC System Improvements			34	0.0	0	\$6	\$179	\$30	\$149	24.9	34
ECM 4	Install Pipe Insulation	No	34	0.0	0	\$6	\$179	\$30	\$149	24.9	34
Domestic Water Heating Upgrade			613	0.0	0	\$109	\$36	\$16	\$20	0.2	618
ECM 5	Install Low-Flow DHW Devices	Yes	613	0.0	0	\$109	\$36	\$16	\$20	0.2	618
TOTALS (COST EFFECTIVE MEASURES)			1,671	1.1	0	\$297	\$1,573	\$361	\$1,211	4.1	1,683
TOTALS (ALL MEASURES)			2,720	2.5	0	\$484	\$15,210	\$846	\$14,363	29.7	2,739

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

** - Simple Pay back 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 Best Practices by building

MEASURES FOR FUTURE CONSIDERATION

- Retro-Commissioning Study
- Installation of an Energy Management System
- Electric Submeter
- Install Building Insulation
- Eliminate Oversized Domestic Hot Water Heating Systems
- Heating System Conversion from Steam to Hot Water
- Upgrade to a Heat Pump System
- Vestibule Revolving Doors
- Window Replacements
- VRF Systems
- Replace Smooth V-Belts w/ Notched or Synchronous Belts
- High Speed Insulated Overhead Doors
- Replace Built-up Air Handlers

EV CHARGING STATION POTENTIAL

NJCleanEnergy.com/EV

Know your EV Charging Stations



LEVEL 1	LEVEL 2	DIRECT CURRENT (DC) FAST CHARGING*
4-6 miles/hour Replenish Rate	10-20 miles/hour Replenish Rate	120-200 miles/hour Replenish Rate
7-30 hours for full charge Approximate time to charge a battery*	2-10 hours for full charge Approximate time to charge a battery*	20-90 minutes for full charge Approximate time to charge a battery*
CHARGE 110/120V	CHARGE 208/240V	CHARGE 480V or 208V

*dependent on the size of the battery

	Atlantic County
Potential:	Medium/High*



*See individual reports for screening results per building

SOLAR ENERGY GENERATION POTENTIAL

NJCleanEnergy.com/renewable-energy

	Civil Courthouse	Criminal Courthouse	Government Bldg	Justice Center	County Office Bldg	Canale FTC	EH Library	Galloway Library	Hammonton Library	ML Library
<i>Potential:</i>	HIGH	Medium	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	Medium	HIGH
<i>System Potential: (kW)</i>	107	215	161	161	107	107	55	100	35	86
<i>Electric Generation: (kWh per year)</i>	127,477	161,776	191,811	191,801	80,512	127,477	65,525	119,137	41,698	102,458
<i>Displaced Cost: (per year)</i>	\$16,690	\$24,910	\$28,660	\$24,890	\$11,150	\$19,600	\$10,230	\$21,380	\$7,110	\$16,490

	Harborfields JDC	Meadowview Sites	Rutgers/ Extension	Stillwater Campus	One Stop Career Ctr
<i>Potential:</i>	Medium	Medium	Medium	HIGH	HIGH
<i>System Potential: (kW)</i>	88	308	54	292	161
<i>Electric Generation: (kWh per year)</i>	104,841	231,753	40,632	353,837	191,811
<i>Displaced Cost: (per year)</i>	\$14,070	\$32,010	\$7,750	\$49,890	\$28,480

FINANCING MECHANISM: ESIP

NJCleanEnergy.com/ESIP

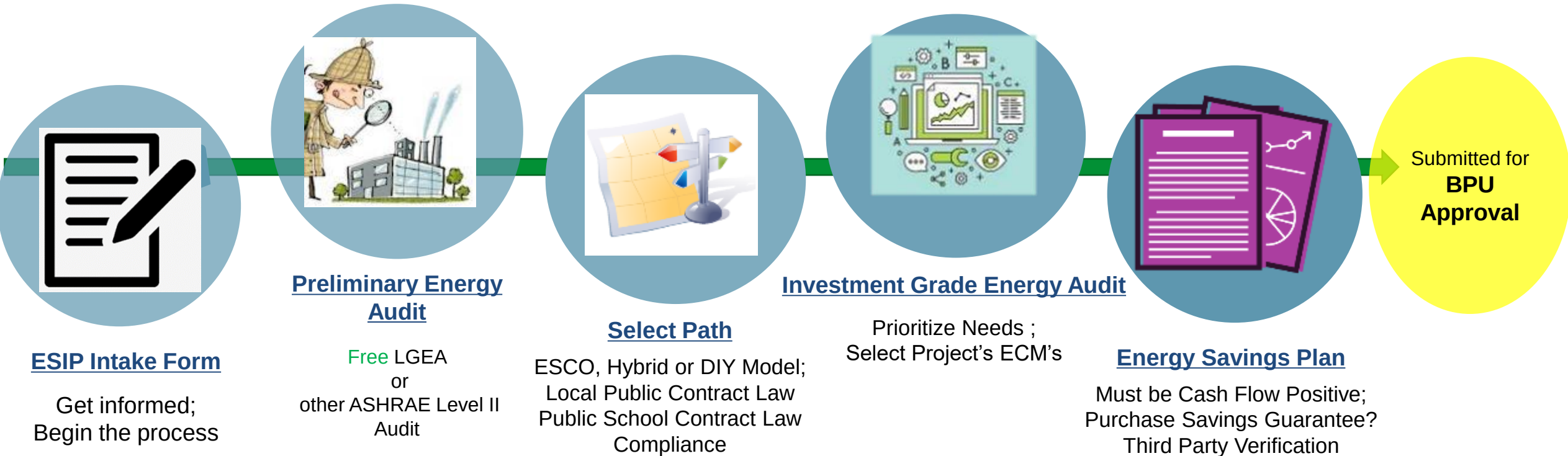
ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- Energy Performance Contracting = NJ ESIP Program
- A creative tool and financing mechanism that allows public 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
- 2 Options: Lease Purchase Loan or Bond
- 15 or 20 year pay back term
- NJBPU Approved Incentive Programs
 - Utility or NJCEP
- Can be combined with Federal/State Grants
- No upfront capital expenses
- No referendum or impact to tax payers



ENERGY SAVINGS IMPROVEMENT PROGRAM

NJCleanEnergy.com/ESIP



ENERGY SAVINGS IMPROVEMENT PROGRAM

NJCleanEnergy.com/ESIP

FOR MORE INFORMATION

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C&I ENERGY EFFICIENCY PROGRAMS

NJCleanEnergy.com

LOCAL
GOVERNMENT
CUSTOMERS

COMMERCIAL &
INSTITUTIONAL
CUSTOMERS

LARGE
ENERGY
CUSTOMERS

EXISTING BUILDINGS

MEASUREMENT & AUDITS

FREE Energy Audits



RETROFITS

Prescriptive &
Custom Rebates

Direct Install

Engineered Solutions

And more from
your local utility!



Incentives up
to \$4 million
for eligible projects



NEW CONSTRUCTION

Prescriptive & Custom
Rebates for New
Construction and
Gut Rehabs

Pay for Performance
incentives for
buildings over
50,000 sq. ft.



DISTRIBUTED ENERGY RESOURCES

Combined Heat & Power
and Fuel Cell Installation
Incentives

Microgrid Development

Battery Storage

Muni EV Fleets



Key:

Programs run by investor-owned utility companies



Programs run by NJCEP



UTILITY RUN ENERGY EFFICIENCY PROGRAMS*

NJCleanEnergy.com/Transition

PRESCRIPTIVE & CUSTOM REBATES:

- Individual high efficiency equipment rebates for renovation, remodeling, and equipment replacement
- Flexibility to do a little or a lot
- No size requirement

DIRECT INSTALL:

- Turn-key retrofit program to replace outdated and inefficient equipment including, lighting, HVAC, refrigeration, etc.
- The facility must have an average electric peak demand <200kW in the previous year to qualify

ENERGY MANAGEMENT :

- Includes the Building Tune-up (BT), Retro-commissioning (RCx), and Strategic Energy Management (SEM) subprograms. These subprograms offer a comprehensive mix of custom energy-savings measures such as basic HVAC tune-ups, building systems tune-ups, controls' calibration, diagnostic testing, and installation of measures to enhance your building's energy performance and savings.

ENGINEERED SOLUTIONS:

- Comprehensive, whole-building approach to saving energy
- The facility must have an average electric peak demand >200kW in the previous year to qualify



**Other programs may be available to you. Check with your Utility Provider to see a full list of offering and what you may be qualified for.*

UTILITY RUN ENERGY EFFICIENCY PROGRAMS

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THANK YOU

