# New Jersey's Clean Energy Program LGEA Presentation

Borough of Woodbine & Woodbine MUA

October 23, 2020





## INTRODUCTIONS

- Borough of Woodbine
  - William Pikolycky Mayor
  - Dave Bennet Councilman
  - Lisa Garrison Borough Clerk
  - James Gurdgiel PW Director
- NJ Clean Energy Program
  - Aimee Lalonde TRC Program Manager
  - Moussa Traore TRC Auditor
  - Sarah Walters TRC Account Manager
  - Tony O'Donnell TRC Outreach Manager
  - Michelle Rossi ESIP Coordinator (BPU)



## Agenda

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



# LGEA PROCESS

**Application Approval** 

Scheduling Call

Audit

**Benchmarking & Analysis** 

**Draft Report** 

**LGEA Presentation** 

**Final Report** 



# SITE VISIT & UTILITY ANALYSIS

### **Overview of Systems, Baseline & Existing Conditions:**

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

### **Utility Consumption:**

- Electric Consumption and Costs
- Natural Gas Consumption and Costs

### Sites Visited/Analyzed

- Woodbine Municipal DPW Garage • Utilities
- Water Plant Garage
- Water Plant Filter Building
- Well #7
- Woodbine Borough Office
- Woodbine State **Police Barracks**
- Woodbine Fire • Department
- Ambulance Squad Building
- **Community Center**

- **DPW Storage** Building
- Woodbine Borough Sewage Treatment Plant
- Airport Hangar B-2
- Airport Hangar D-1
- Airport Hangar C-2
- Airport Hangar A-1
- Airport Office FBO
- Airport Light Building (Red Brick)
- Airport Hangar #12

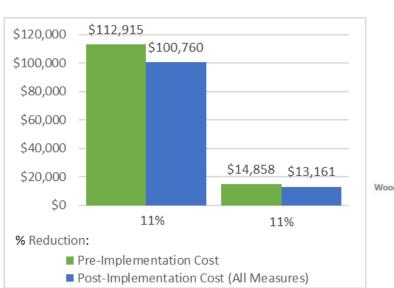
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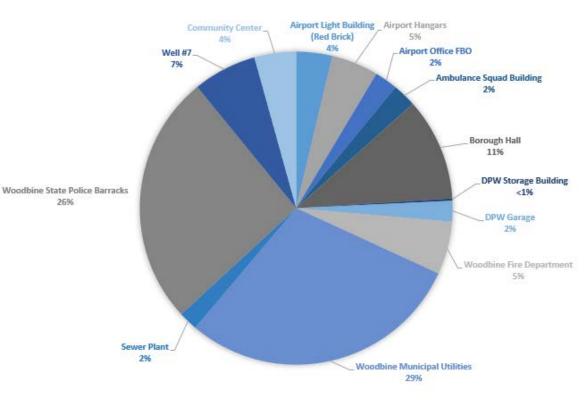
## **UTILITY BREAKOUT**

26%

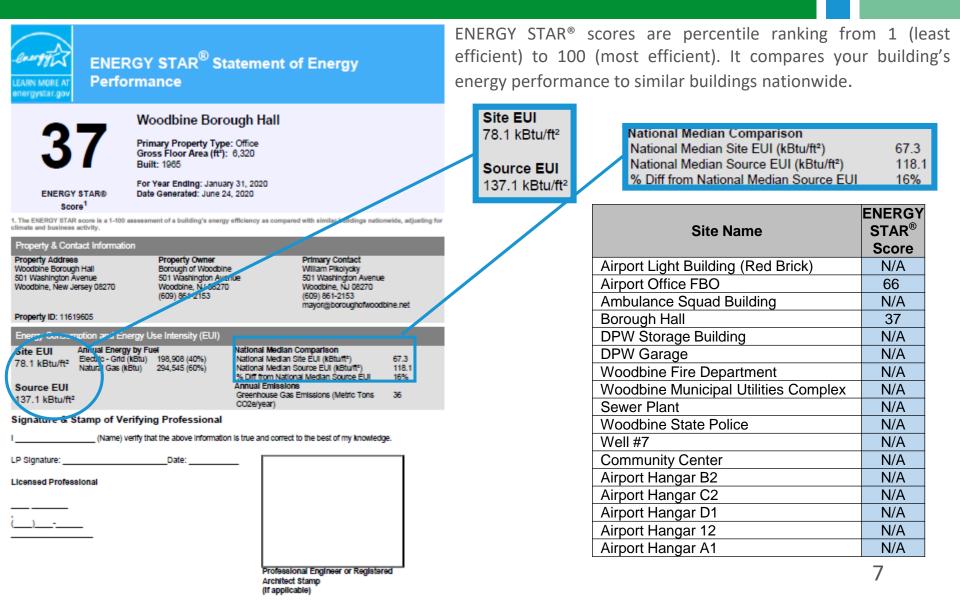
#### Pre & Post Implementation Costs



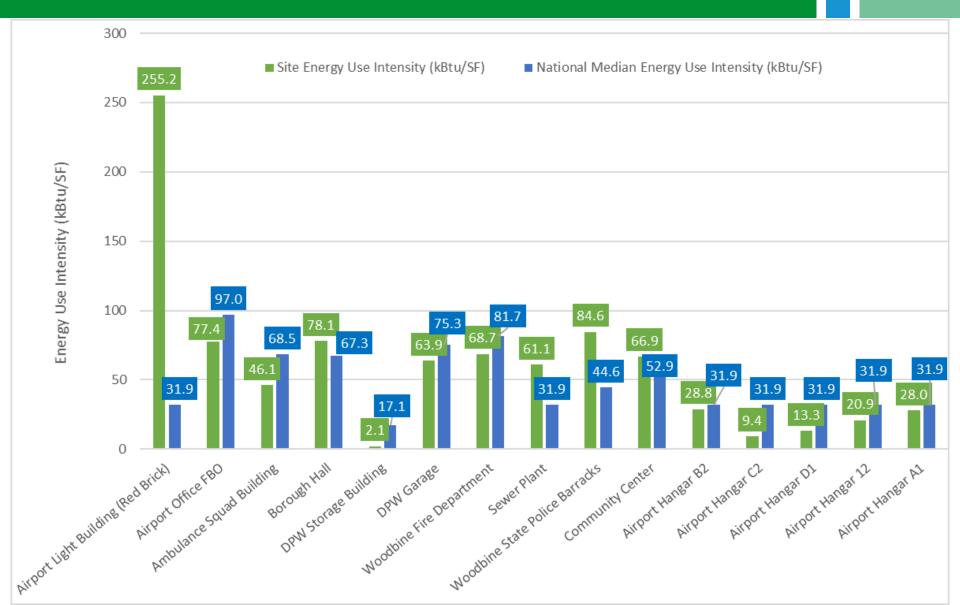
### Percent of Total Annual Energy Costs



## BENCHMARKING

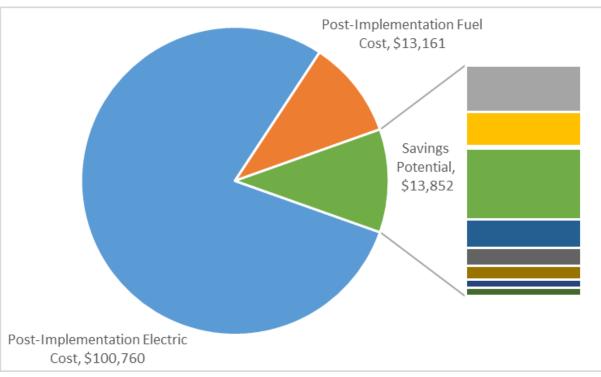


## BENCHMARKING



# ALL OPPORTUNITIES

### **Savings Potential**



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



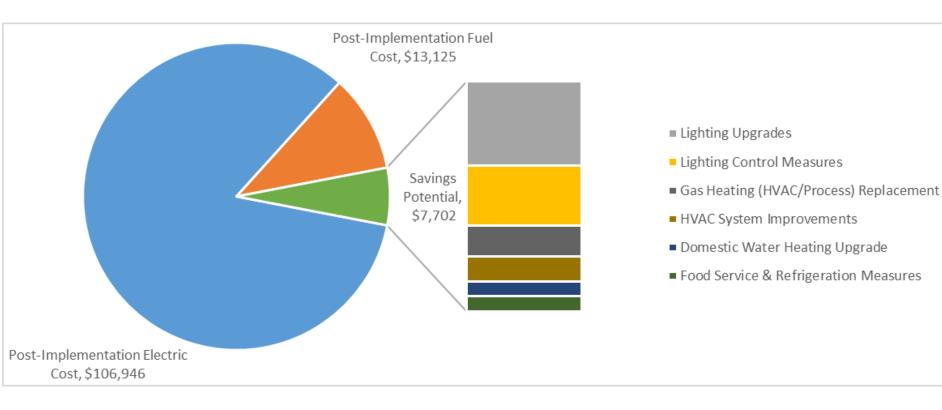
# ALL OPPORTUNITIES

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO₂e Emissions Reduction (Ibs)
Lighting	Upgrades	15,581	4.3	-0.9	\$2,812	\$11,717	\$3,534	\$8,183	2.9	15,589
ECM 1	Install LED Fixtures	3,910	0.6	0.0	\$729	\$6,104	\$1,640	\$4,464	6.1	3,937
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	7,192	2.4	-0.3	\$1,277	\$3,710	\$1,220	\$2,490	1.9	7,206
ECM 3	Retrofit Fixtures with LED Lamps	4,478	1.3	-0.6	\$806	\$1,904	\$674	\$1,230	1.5	4,445
Lighting	Control Measures	12,168	3.4	-1.0	\$2,028	\$13,848	\$4,115	\$9,733	4.8	12,131
ECM 4	Install Occupancy Sensor Lighting Controls	10,264	3.1	-1.0	\$1,726	\$13,173	\$3,455	\$9,718	5.6	10,213
ECM 5	Install High/Low Lighting Controls	1,904	0.2	0.0	\$302	\$675	\$660	\$15	0.0	1,917
Motor U	Ipgrades	905	0.2	0.0	\$152	\$2,466	\$0	\$2,466	16.2	911
ECM 6	Premium Efficiency Motors	905	0.2	0.0	\$152	\$2,466	\$0	\$2,466	16.2	911
Variable	Frequency Drive (VFD) Measures	26,642	3.8	0.0	\$4,232	\$50,471	\$2,050	\$48,421	11.4	26,828
ECM 7	Install VFDs on Constant Volume (CV) Fans	21,674	2.9	0.0	\$3,443	\$40,559	\$1,500	\$39,059	11.3	21,825
ECM 8	Install VFDs on Heating Water Pumps	4,533	0.9	0.0	\$720	\$6,522	\$400	\$6,122	8.5	4,565
ECM 9	Install VFDs on Cooling Tower Fans	435	0.0	0.0	\$69	\$3,391	\$150	\$3,241	46.9	438
Electric	Unitary HVAC Measures	10,613	6.4	0.0	\$1,746	\$146,012	\$11,378	\$134,634	77.1	10,687
ECM 10	Install High Efficiency Air Conditioning Units	6,769	5.1	0.0	\$1,135	\$45,505	\$5,520	\$39,985	35.2	6,817
ECM 11	Install High Efficiency Heat Pumps	3,844	1.3	0.0	\$611	\$100,506	\$5,858	\$94,649	155.0	3,871
Gas Heat	ting (HVAC/Process) Replacement	0	0.0	73.0	\$1,040	\$17,242	\$7,200	\$10,042	9.7	8,544
ECM 12	Install High Efficiency Furnaces	0	0.0	73.0	\$1,040	\$17,242	\$7,200	\$10,042	9.7	8,544
HVAC Sy	stem Improvements	1,619	0.0	40.0	\$849	\$2,573	\$120	\$2,453	2.9	6,315
ECM 13	Install Programmable Thermostats	1,619	0.0	19.9	\$563	\$2,309	\$0	\$2,309	4.1	3,965
ECM 14	Install Pipe Insulation	0	0.0	20.1	\$286	\$264	\$120	\$144	0.5	2,350
Domesti	ic Water Heating Upgrade	2,920	1.4	-0.8	\$480	\$659	\$643	\$16	0.0	2,842
ECM 15	Install Tankless Water Heater	246	1.4	-0.8	\$30	\$523	\$523	\$0	0.0	150
ECM 16	Install Low-Flow DHW Devices	2,674	0.0	0.0	\$450	\$136	\$120	\$16	0.0	2,693
Food Se	rvice & Refrigeration Measures	3,224	0.4	0.0	\$512	\$460	\$200	\$260	0.5	3,246
ECM 17	Vending Machine Control	3,224	0.4	0.0	\$512	\$460	\$200	\$260	0.5	3,246
	TOTALS	73,671	19.8	110.2	\$13,852	\$245,448	\$29,240	\$216,208	15.6	87,093

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

## 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 Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO₂e Emissions Reduction (Ibs)
Lighting	Upgrades	15,581	4.3	-0.9	\$2,812	\$11,717	\$3,534	\$8,183	2.9	15,589
ECM 1	Install LED Fixtures	3,910	0.6	0.0	\$729	\$6,104	\$1,640	\$4,464	6.1	3,937
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	7,192	2.4	-0.3	\$1,277	\$3,710	\$1,220	\$2,490	1.9	7,206
ECM 3	Retrofit Fixtures with LED Lamps	4,478	1.3	-0.6	\$806	\$1,904	\$674	\$1,230	1.5	4,445
Lighting	Control Measures	12,067	3.2	-1.0	\$2,009	\$12,498	\$3,835	\$8,663	4.3	12,029
ECM 4	Install Occupancy Sensor Lighting Controls	10,163	3.0	-1.0	\$1,707	\$11,823	\$3,175	\$8,648	5.1	10,112
ECM 5	Install High/Low Lighting Controls	1,904	0.2	0.0	\$302	\$675	\$660	\$15	0.0	1,917
Gas Heat	ting (HVAC/Process) Replacement	0	0.0	73.0	\$1,040	\$17,242	\$7,200	\$10,042	9.7	8,544
ECM 12	Install High Efficiency Furnaces	0	0.0	73.0	\$1,040	\$17,242	\$7,200	\$10,042	9.7	8,544
HVAC Sy	rstem Improvements	1,619	0.0	40.0	\$849	\$2,573	\$120	\$2,453	2.9	6,315
ECM 13	Install Programmable Thermostats	1,619	0.0	19.9	\$563	\$2,309	\$0	\$2,309	4.1	3,965
Domesti	ic Water Heating Upgrade	2,920	1.4	-0.8	\$480	\$659	\$643	\$16	0.0	2,842
ECM 15	Install Tankless Water Heater	246	1.4	-0.8	\$30	\$523	\$523	\$0	0.0	150
ECM 16	Install Low-Flow DHW Devices	2,674	0.0	0.0	\$450	\$136	\$120	\$16	0.0	2,693
Food Ser	rvice & Refrigeration Measures	3,224	0.4	0.0	\$512	\$460	\$200	\$260	0.5	3,246
ECM 17	Vending Machine Control	3,224	0.4	0.0	\$512	\$460	\$200	\$260	0.5	3,246
	TOTALS	35,411	9.2	110.2	\$7,702	\$45,149	\$15,532	\$29,617	3.8	48,565

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

## WOODBINE MUNICIPAL UTILITIES

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		427	0.0	0	\$67	\$669	\$208	\$461	6.9	428
ECM 1	Install LED Fixtures	Yes	221	0.0	0	\$35	\$600	\$200	\$400	11.5	222
ECM 2	Retrofit Fixtures with LED Lamps	Yes	206	0.0	0	\$32	\$69	\$8	\$61	1.9	205
Lighting	Control Measures		384	0.2	0	\$59	\$810	\$210	\$600	10.2	377
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	384	0.2	0	\$59	\$810	\$210	\$600	10.2	377
Electric	Unitary HVAC Measures		1,841	0.9	0	\$289	\$7,481	\$920	\$6,561	22.7	1,853
ECM 4	Install High Efficiency Air Conditioning Units	No	1,841	0.9	0	\$289	\$7,481	\$920	\$6,561	22.7	1,853
HVAC Sy	stem Improvements		532	0.0	0	\$84	\$660	\$0	\$660	7.9	536
ECM 5	Install Programmable Thermostats	Yes	532	0.0	0	\$84	\$660	<b>\$</b> 0	\$660	7.9	536
Domest	ic Water Heating Upgrade		278	0.0	0	\$44	\$14	\$14	\$0	0.0	280
ECM 6	Install Low-Flow DHW Devices	Yes	278	0.0	0	\$44	\$14	\$14	\$0	0.0	280
	TOTALS (COST EFFECTIVE MEASURES)		1,621	0.2	0	\$252	\$2,153	\$432	\$1,721	<b>6.8</b>	1,621
	TOTALS (ALL MEASURES)		3,461	1.1	0	\$541	\$9,634	\$1,352	\$8,282	15.3	3,474

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





#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Savings		Energy Cost Savings	Estimated Install Cost (\$)		Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		553	0.1	0	\$110	\$1,036	\$204	\$832	7.6	553
ECM 1	Install LED Fixtures	Yes	423	0.0	0	\$85	\$966	\$200	\$766	9.0	426
ECM 2	Retrofit Fixtures with LED Lamps	Yes	130	0.1	0	\$25	\$70	\$4	\$66	2.7	127
	TOTALS (COST EFFECTIVE MEASURES)		553	0.1	0	\$110	\$1,036	\$204	\$832	7.6	553
	TOTALS (ALL MEASURES)		553	0.1	0	\$110	\$1,036	\$204	\$832	7.6	553

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# WOODBINE BOROUGH OFFICE

	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		620	0.2	0	\$102	\$89	\$8	\$81	0.8	609
ECM 1	Retrofit Fixtures with LED Lamps	Yes	620	0.2	0	\$102	\$89	\$8	\$81	0.8	609
Lighting	Control Measures		1,590	0.5	0	\$261	\$2,565	\$1,165	\$1,400	5.4	1,563
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	1,590	0.5	0	\$261	\$2,565	\$1,165	\$1,400	5.4	1,563
Motor U	pgrades		828	0.2	0	\$138	\$2,114	\$0	\$2,114	15.3	834
ECM 3	Premium Efficiency Motors	No	828	0.2	0	\$138	\$2,114	\$0	\$2,114	15.3	834
Electric	Unitary HVAC Measures		3,183	2.5	0	\$532	\$23,469	\$2,944	\$20,525	38.6	3,205
ECM 4	Install High Efficiency Air Conditioning Units	No	3,183	2.5	0	\$532	\$23,469	\$2,944	\$20,525	38.6	3,205
Gas Hea	ting (HVAC/Process) Replacement		0	0.0	43	\$595	\$10,876	\$4,800	\$6,076	10.2	5,028
ECM 5	Install High Efficiency Furnaces	Yes	0	0.0	43	\$595	\$10,876	\$4,800	\$6,076	10.2	5,028
HVAC Sy	stem Improvements		465	0.0	3	\$113	\$330	\$0	\$330	2.9	770
ECM 6	Install Programmable Thermostats	Yes	465	0.0	3	\$113	\$330	\$0	\$330	2.9	770
Domest	ic Water Heating Upgrade		409	0.0	0	\$68	\$36	\$20	\$16	0.2	412
ECM 7	Install Low-Flow DHW Devices	Yes	409	0.0	0	\$68	\$36	\$20	\$16	0.2	412
	TOTALS (COST EFFECTIVE MEASURES)			0.7	45	\$1,140	\$13,895	\$5,993	\$7,902	6.9	8,382
	TOTALS (ALL MEASURES)		7,095	3.5	45	\$1,811	\$39,478	\$8,937	\$30,541	16.9	12,421

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## Woodbine State Police Barracks

	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		567	0.1	0	\$90	\$252	\$40	\$212	2.4	571
ECM 1	Retrofit Fixtures with LED Lamps	Yes	567	0.1	0	\$90	\$252	\$40	\$212	2.4	571
Lighting	Control Measures		5,917	0.8	0	\$940	\$2,835	\$1,220	\$1,615	1.7	5,958
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	4,013	0.6	0	\$638	\$2,160	\$560	\$1,600	2.5	4,041
ECM 3	Install High/Low Lighting Controls	Yes	1,904	0.2	0	\$302	\$675	\$660	\$15	0.0	1,917
Variable	Frequency Drive (VFD) Measures		26,642	3.8	0	\$4,232	\$50,471	\$2,050	\$48,421	11.4	26,828
ECM 4	Install VFDs on Constant Volume (CV) Fans	No	21,674	2.9	0	\$3,443	\$40,559	\$1,500	\$39,059	11.3	21,825
ECM 5	Install VFDs on Heating Water Pumps	No	4,533	0.9	0	\$720	\$6,522	\$400	\$6,122	8.5	4,565
ECM 6	Install VFDs on Cooling Tower Fans	No	435	0.0	0	\$69	\$3,391	\$150	\$3,241	46.9	438
Electric (	Unitary HVAC Measures		3,844	1.3	0	\$611	\$100,506	\$5,858	\$94,649	155.0	3,871
ECM 7	Install High Efficiency Heat Pumps	No	3,844	1.3	0	\$611	\$100,506	\$5,858	\$94,649	155.0	3,871
Domesti	c Water Heating Upgrade		834	0.0	0	\$133	\$22	\$22	\$0	0.0	840
ECM 8	Install Low-Flow DHW Devices	Yes	834	0.0	0	\$133	\$22	\$22	\$0	0.0	840
Food Se	rvice & Refrigeration Measures		3,224	0.4	0	\$512	\$460	\$200	\$260	0.5	3,246
ECM 9	Vending Machine Control	Yes	3,224	0.4	0	\$512	\$460	\$200	\$260	0.5	3,246
	TOTALS (COST EFFECTIVE MEASURES)			1.3	0	\$1,675	\$3,569	\$1,482	\$2,087	1.2	10,615
	TOTALS (ALL MEASURES)		41,027	6.3	0	\$6,518	\$154,547	\$9,389	\$145,157	22.3	41,313

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



# WOODBINE FIRE DEPARTMENT

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		772	0.2	0	\$138	\$310	\$84	\$226	1.6	758
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	742	0.2	0	\$133	\$275	\$80	\$195	1.5	729
ECM 2	Retrofit Fixtures with LED Lamps	Yes	30	0.0	0	\$5	\$34	\$4	\$30	5.7	29
Lighting	Control Measures		1,653	0.5	0	\$296	\$1,620	\$350	\$1,270	4.3	1,623
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	1,653	0.5	0	\$296	\$1,620	\$350	\$1,270	4.3	1,623
Electric	Unitary HVAC Measures		757	0.6	0	\$138	\$7,481	\$920	\$6,561	47.5	763
ECM 4	Install High Efficiency Air Conditioning Units	No	757	0.6	0	\$138	\$7,481	\$920	\$6,561	47.5	763
HVAC Sy	rstem Improvements		0	0.0	20	\$286	\$264	\$120	\$144	0.5	2,350
ECM 5	Install Pipe Insulation	Yes	0	0.0	20	\$286	\$264	\$120	\$144	0.5	2,350
Domest	ic Water Heating Upgrade		278	0.0	0	\$51	\$14	\$14	<b>\$</b> 0	0.0	280
ECM 6	Install Low-Flow DHW Devices	Yes	278	0.0	0	\$51	\$14	\$14	\$0	0.0	280
	TOTALS (COST EFFECTIVE MEASURES)		2,703	0.7	20	\$771	\$2,208	\$568	\$1,639	2.1	5,011
	TOTALS (ALL MEASURES)		3,460	1.3	20	\$910	\$9,689	\$1,488	\$8,200	9.0	5,774
	TOTALS (ALL MEASURES)		3,460	1.3	20	\$910	\$9,689	\$1,488	\$8,200	9.0	5,774

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# AMBULANCE SQUAD BUILDING

Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (Ibs)
Upgrades		5	0.0	0	\$1	\$17	\$2	\$15	17.2	5
Retrofit Fixtures with LED Lamps	Yes	5	0.0	0	\$1	\$17	\$2	\$15	17.2	5
Control Measures		400	0.3	0	\$68	\$926	\$250	\$676	9.9	393
Install Occupancy Sensor Lighting Controls	Yes	400	0.3	0	\$68	\$926	\$250	\$676	9.9	393
Unitary HVAC Measures		775	0.9	0	\$135	\$5,985	\$736	\$5,249	39.0	781
Install High Efficiency Air Conditioning Units	No	775	0.9	0	\$135	\$5,985	\$736	\$5,249	39.0	781
ting (HVAC/Process) Replacement		0	0.0	18	\$278	\$3,942	\$1,600	\$2,342	8.4	2,119
Install High Efficiency Furnaces	Yes	0	0.0	18	\$278	\$3,942	\$1,600	\$2,342	8.4	2,119
stem Improvements		207	0.0	9	\$172	\$660	\$0	\$660	3.8	1,241
Install Programmable Thermostats	Yes	207	0.0	9	\$172	\$660	\$0	\$660	3.8	1,241
ic Water Heating Upgrade		385	1.4	-1	\$54	\$530	\$530	\$0	0.0	290
Install Tankless Water Heater	Yes	246	1.4	-1	\$30	\$523	\$523	\$0	0.0	150
Install Low-Flow DHW Devices	Yes	139	0.0	0	\$24	\$7	\$7	\$0	0.0	140
TOTALS (COST EFFECTIVE MEASURES)		997	1.6	26	\$573	\$6,075	\$2,382	\$3,693	6.4	4,048
TOTALS (ALL MEASURES)		1,772	2.5	26	\$707	\$12,060	\$3,118	\$8,942	12.6	4,829
	Upgrades      Retrofit Fixtures with LED Lamps      Control Measures      Install Occupancy Sensor Lighting Controls      Unitary HVAC Measures      Install High Efficiency Air Conditioning Units      ting (HVAC/Process) Replacement      Install High Efficiency Furnaces      vstem Improvements      Install Programmable Thermostats      ic Water Heating Upgrade      Install Tankless Water Heater      Install Low-Flow DHW Devices      TOTALS (COST EFFECTIVE MEASURES)	Energy Conservation MeasureEffective?UpgradesRetrofit Fixtures with LED LampsYesControl MeasuresInstall Occupancy Sensor Lighting ControlsYesUnitary HVAC MeasuresUnitary HVAC MeasuresInstall High Efficiency Air Conditioning UnitsNoting (HVAC/Process) ReplacementInstall High Efficiency FurnacesYesvstem ImprovementsInstall Programmable ThermostatsYesic Water Heating UpgradeInstall Tankless Water HeaterYesInstall Low-Flow DHW DevicesYesTOTALS (COST EFFECTIVE MEASURES)	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Upgrades5Retrofit Fixtures with LED LampsYes5Control MeasuresYes400Install Occupancy Sensor Lighting ControlsYes400Unitary HVAC MeasuresYes400Unitary HVAC MeasuresNo775Install High Efficiency Air Conditioning UnitsNo775ting (HVAC/Process) Replacement00Install High Efficiency FurnacesYes0vstem ImprovementsYes207Install Programmable ThermostatsYes207ic Water Heating UpgradeYes246Install Low-Flow DHW DevicesYes139TOTALS (COST EFFECTIVE MEASURES)997	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Demand Savings (kWh)Upgrades50.0Retrofit Fixtures with LED LampsYes50.0Control MeasuresYes4000.3Install Occupancy Sensor Lighting ControlsYes4000.3Unitary HVAC MeasuresYes4000.3Install High Efficiency Air Conditioning UnitsNo7750.9Install High Efficiency FurnacesYes00.0Install High Efficiency FurnacesYes00.0Install Programmable ThermostatsYes2070.0Install Tankless Water HeaterYes2461.4Install Low-Flow DHW DevicesYes1390.0TOTALS (COST EFFECTIVE MEASURES)9971.6	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Penand Savings (kWh)Fuel Savings (kWh)Upgrades50.00Retrofit Fixtures with LED LampsYes50.00Control MeasuresYes4000.30Install Occupancy Sensor Lighting ControlsYes4000.30Unitary HVAC MeasuresYes4000.30Install High Efficiency Air Conditioning UnitsNo7750.90Install High Efficiency FurnacesYes00.018Install High Efficiency FurnacesYes2070.09Install Programmable ThermostatsYes2070.09ic Water Heating UpgradeYes2461.4-1Install Low-Flow DHW DevicesYes1390.00TOTALS (COST EFFECTIVE MEASURES)Yes9971.626	Energy Conservation MeasureCost Effective?Electric Savings (kW)Pruel Savings (kW)Energy Cost Savings (kW)Energy Cost Savings 	Energy Conservation MeasureCost Effective?Electric Savings (kW)Puel Savings (kW)Energy Cost Savings (kW)Energy Cost (kW)Energy Cost (k)	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Demand Savings (kWh)Fuel Savings (s)Estimated Install Cost (s)Estimated Incentive (s)*Upgrades50.00\$1\$17\$2Retrofit Fixtures with LED LampsYes50.00\$1\$17\$2Control MeasuresYes4000.30\$68\$926\$250Install Occupancy Sensor Lighting ControlsYes4000.30\$68\$926\$250Unitary HVAC MeasuresYes7750.90\$135\$5,985\$736Install Getupancy Sensor Lighting ControlsNo7750.90\$135\$5,985\$736Install High Efficiency Air Conditioning UnitsNo7750.90\$135\$5,985\$736Install High Efficiency FurnacesYes00.018\$278\$3,942\$1,600Install Programmable ThermostatsYes2070.09\$172\$660\$0Install Programmable ThermostatsYes2070.09\$172\$660\$0Install Tankless Water HeaterYes1390.00\$24\$7\$7TOTALS (COST EFFECTIVE MEASURES)Yes1390.00\$24\$7\$7OVes10971010\$24\$7\$7	Energy Conservation MeasureCost Effective?Electric Savings (kW)Demand Savings (kW)Fuel Savings (s)Energy Cost install Cost install Cost install Cost (s)Elemate install Cost (s)Elemate install Cost (s)Elemate install Cost (s)Elemate install Cost (s)Elemate install Cost (s)Elemate install Cost install Cost install Cost (s)Elemate install Cost install Cost (s)Elemate install Cost install Cost (s)Elemate install Cost install Cost (s)Elemate install Cost install Cost install Cost (s)Elemate install Cost install Cost install Cost (s)Elemate install Cost install Cost<	Energy Conservation MeasureCost Effective?Electric savings (kW)Demand savings (kW)Fuel savings (s)Energy Cost install Cost install Cost (s)Elemand savings (s)<

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



# COMMUNITY CENTER

	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (lbs)
Lighting	Control Measures		527	0.3	0	\$93	\$1,466	\$250	\$1,216	13.1	518
ECM 1	Install Occupancy Sensor Lighting Controls	Yes	527	0.3	0	\$93	\$1,466	\$250	\$1,216	13.1	518
Motor U	Ipgrades		76	0.0	0	\$14	\$352	\$0	\$352	25.7	77
ECM 2	Premium Efficiency Motors	No	76	0.0	0	\$14	\$352	<b>\$0</b>	\$352	25.7	77
Gas Hea	ting (HVAC/Process) Replacement		0	0.0	12	\$167	\$2,424	\$800	\$1,624	9.7	1,396
ECM 3	Install High Efficiency Furnaces	Yes	0	0.0	12	\$167	\$2,424	\$800	\$1,624	9.7	1,396
HVAC S	stem Improvements		415	0.0	9	\$194	\$660	\$0	\$660	3.4	1,418
ECM 4	Install Programmable Thermostats	Yes	415	0.0	9	\$194	\$660	\$0	\$660	3.4	1,418
Domest	ic Water Heating Upgrade		417	0.0	0	\$75	\$22	\$22	\$0	0.0	420
ECM 5	Install Low-Flow DHW Devices	Yes	417	0.0	0	\$75	\$22	\$22	\$0	0.0	420
	TOTALS (COST EFFECTIVE MEASURES)		1,359	0.3	20	\$529	\$4,572	\$1,072	\$3,500	6.6	3,752
	TOTALS (ALL MEASURES)		1,436	0.4	20	\$543	\$4,924	\$1,072	\$3,852	7.1	3,828

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



## DPW GARAGE

	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		1,714	0.4	0	\$348	\$3,182	\$1,036	\$2,146	6.2	1,705
ECM 1	Install LED Fixtures	Yes	809	0.0	0	\$165	\$2,400	\$800	\$1,600	9.7	815
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	662	0.3	0	\$133	\$712	\$220	\$492	3.7	649
ECM 3	Retrofit Fixtures with LED Lamps	Yes	242	0.0	0	\$49	\$70	\$16	\$54	1.1	241
Lighting	Control Measures		158	0.1	0	\$32	\$386	\$110	\$276	8.7	155
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	158	0.1	0	\$32	\$386	\$110	\$276	8.7	155
Domest	ic Water Heating Upgrade		41	0.0	0	\$8	\$7	\$7	\$0	0.0	41
ECM 5	Install Low-Flow DHW Devices	Yes	41	0.0	0	\$8	\$7	\$7	\$0	0.0	41
	TOTALS (COST EFFECTIVE MEASURES)		1,913	0.4	0	\$388	\$3,575	\$1,153	\$2,422	6.2	1,902
	TOTALS (ALL MEASURES)		1,913	0.4	0	\$388	\$3,575	\$1,153	\$2,422	6.2	1,902

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



# DPW STORAGE BUILDING

Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Savings	Savings	Savings			Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Upgrades		630	0.3	0	\$183	\$1,043	\$400	\$643	3.5	634
Install LED Fixtures	Yes	202	0.0	0	\$59	\$600	\$200	\$400	6.8	204
Retrofit Fixtures with LED Lamps	Yes	428	0.3	0	\$124	\$443	\$200	\$243	2.0	431
Control Measures		111	0.1	0	\$32	\$270	\$70	\$200	6.2	112
Install Occupancy Sensor Lighting Controls	Yes	111	0.1	0	\$32	\$270	\$70	\$200	6.2	112
TOTALS (COST EFFECTIVE MEASURES)		741	0.4	0	\$215	\$1,313	\$470	\$843	3.9	746
TOTALS (ALL MEASURES)		741	0.4	0	\$215	\$1,313	\$470	\$843	3.9	746
	Install LED Fixtures Retrofit Fixtures with LED Lamps Control Measures Install Occupancy Sensor Lighting Controls TOTALS (COST EFFECTIVE MEASURES)	Energy Conservation Measure    Effective?      Upgrades    Install LED Fixtures    Yes      Install LED Fixtures with LED Lamps    Yes      Control Measures    Yes      Install Occupancy Sensor Lighting Controls    Yes      TOTALS (COST EFFECTIVE MEASURES)	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Upgrades630Install LED FixturesYesRetrofit Fixtures with LED LampsYesControl MeasuresYesInstall Occupancy Sensor Lighting ControlsYesTOTALS (COST EFFECTIVE MEASURES)741	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Demand Savings (kW)Upgrades6300.3Install LED FixturesYes2020.0Retrofit Fixtures with LED LampsYes4280.3Control MeasuresYes1110.1Install Occupancy Sensor Lighting ControlsYes1110.1TOTALS (COST EFFECTIVE MEASURES)Yes1110.4	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Demand Savings (MMBtu)Upgrades6300.30Install LED FixturesYes2020.00Retrofit Fixtures with LED LampsYes4280.30Control MeasuresYes1110.10Install Occupancy Sensor Lighting ControlsYes1110.10TOTALS (COST EFFECTIVE MEASURES)Ves1110.40	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Demand Savings (kW)Fuel Savings Savings (kW)Energy Cost Savings (kW)Upgrades6300.30\$183Install LED FixturesYes2020.00\$59Retrofit Fixtures with LED LampsYes4280.30\$124Control MeasuresYes1110.10\$32Install Occupancy Sensor Lighting ControlsYes1110.10\$32TOTALS (COST EFFECTIVE MEASURES)Ves1110.40\$215	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Demand Savings (kWh)Fuel Savings Savings (kMMBtu)Energy Cost Savings (s)Estimated Install Cost (s)UpgradesG300.30\$183\$1,043Install LED FixturesYes2020.00\$59\$600Retrofit Fixtures with LED LampsYes4280.30\$124\$443Control MeasuresInstall Occupancy Sensor Lighting ControlsYes1110.10\$32\$270Install Occupancy Sensor Lighting ControlsYes7410.40\$215\$1,313	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Demand Savings (kWh)Fuel Savings (s)Energy Cost Install Cost (s)Estimated Install Cost (s)UpgradesG300.30\$183\$1,043\$400Install LED FixturesYes2020.00\$59\$600\$200Retrofit Fixtures with LED LampsYes4280.30\$124\$443\$200Install Occupancy Sensor Lighting ControlsYes1110.10\$32\$270\$70TOTALS (COST EFFECTIVE MEASURES)Yes7410.40\$215\$1,313\$470	Energy Conservation MeasureCost Effective?Electric Savings (kWh)Demand Savings (kWh)Fuel Savings Savings (s)Estimated Install Cost (s)Estimated Net Cost (s)Estimated Net Cost (s)Upgrades6300.30\$183\$1,043\$400\$643Install LED FixturesYes2020.00\$59\$600\$200\$400Retrofit Fixtures with LED LampsYes4280.30\$124\$443\$200\$243Control MeasuresYes1110.10\$32\$270\$70\$200Install Occupancy Sensor Lighting ControlsYes1110.10\$32\$270\$70\$200TOTALS (COST EFFECTIVE MEASURES)Ves1110.40\$215\$1,313\$470\$843	Energy Conservation MeasureCost Effective?Electric Savings (kW)Demand Savings (kW)Fuel Savings (s)Energy Cost Savings (s)Estimated Install Cost (s)Estimated Net Cost (s)Estimated Net Cost (s)Payback Period (yr) **UpgradesInstall LED FixturesYes6300.30\$183\$1,043\$400\$6433.5Install LED FixturesYes2020.00\$599\$600\$200\$4006.8Retrofit Fixtures with LED LampsYes4280.30\$124\$443\$200\$2432.0Control MeasuresYes1110.10\$32\$270\$70\$2006.2Install Occupancy Sensor Lighting ControlsYes1110.10\$32\$270\$70\$2006.2TOTALS (COST EFFECTIVE MEASURES)Yes7410.40\$215\$1,313\$470\$8433.9

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



# Sewage Treatment Plant

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		526	0.0	0	\$85	\$965	\$204	\$761	<b>8.9</b>	529
ECM 1	Install LED Fixtures	Yes	460	0.0	0	\$75	\$931	\$200	\$731	9.8	463
ECM 2	Retrofit Fixtures with LED Lamps	Yes	66	0.0	0	\$11	\$34	\$4	\$30	2.9	66
Lighting	Control Measures		13	0.2	0	\$2	\$810	\$140	\$670	305.6	14
ECM 3	Install Occupancy Sensor Lighting Controls	No	13	0.2	0	\$2	\$810	\$140	\$670	305.6	14
	TOTALS (COST EFFECTIVE MEASURES)		526	0.0	0	\$85	\$965	\$204	\$761	8.9	529
	TOTALS (ALL MEASURES)		539	0.2	0	\$88	\$1,775	\$344	\$1,431	16.3	543

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



## AIRPORT HANGARS

	Energy Conservation Measure	Cost Effective?		Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)		Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		7,487	2.4	0	\$1,292	\$3,346	\$1,002	\$2,344	1.8	7,539
ECM 1	Install LED Fixtures	Yes	1,795	0.6	0	\$310	\$607	\$40	\$567	1.8	1,807
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	5,216	1.7	0	\$900	\$2,367	\$800	\$1,567	1.7	5,252
ECM 3	Retrofit Fixtures with LED Lamps	Yes	477	0.2	0	\$82	\$371	\$162	\$209	2.5	480
Lighting	Control Measures		1,111	0.4	0	\$192	\$1,350	\$140	\$1,210	6.3	1,119
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	1,111	0.4	0	\$192	\$1,350	\$140	\$1,210	6.3	1,119
TOTALS (COST EFFECTIVE MEASURES)		8,598	2.7	0	\$1,484	\$4,696	\$1,142	\$3,554	2.4	8,658	
TOTALS (ALL MEASURES)		8,598	2.7	0	\$1,484	\$4,696	\$1,142	\$3,554	2.4	8,658	

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



# AIRPORT OFFICE FBO

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)		Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		1,708	0.4	0	\$285	\$453	\$226	\$227	0.8	1,680
ECM 1	Retrofit Fixtures with LED Lamps	Yes	1,708	0.4	0	\$285	\$453	\$226	\$227	0.8	1,680
Lighting	Control Measures		216	0.0	0	\$36	\$270	\$70	\$200	5.6	212
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	216	0.0	0	\$36	\$270	\$70	\$200	5.6	212
Domest	ic Water Heating Upgrade		278	0.0	0	\$47	\$14	\$14	\$0	0.0	280
ECM 3	Install Low-Flow DHW Devices	Yes	278	0.0	0	\$47	\$14	\$14	\$0	0.0	280
	TOTALS (COST EFFECTIVE MEASURES)		2,202	0.4	0	\$368	\$738	\$310	\$427	1.2	2,172
TOTALS (ALL MEASURES)		2,202	0.4	0	\$368	\$738	\$310	\$427	1.2	2,172	

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



## AIRPORT LIGHT BUILDING (RED BRICK)

*	Energy Conservation Measure	Cost Effective?		Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO <sub>2</sub> e Emissions Reduction (Ibs)
Lighting	Upgrades		572	0.2	0	\$111	\$355	\$120	\$235	2.1	576
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	572	0.2	0	\$111	\$355	\$120	\$235	2.1	576
Lighting	Control Measures		87	0.0	0	\$17	\$540	\$140	\$400	23.6	88
ECM 2	Install Occupancy Sensor Lighting Controls	No	87	0.0	0	\$17	\$540	\$140	\$400	23.6	88
Electric	Unitary HVAC Measures		214	0.1	0	\$42	\$1,089	\$0	\$1,089	26.2	215
ECM 3	Install High Efficiency Air Conditioning Units	No	214	0.1	0	\$42	\$1,089	\$0	\$1,089	26.2	215
	TOTALS (COST EFFECTIVE MEASURES)		572	0.2	0	\$111	\$355	\$120	\$235	2.1	576
	TOTALS (ALL MEASURES)		873	0.4	0	\$170	\$1,984	\$260	\$1,724	10.2	879

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



## ENERGY EFFICIENT BEST PRACTICES

- Reduce Air Leakage
- Close Doors and Windows
- Develop a Lighting Maintenance Schedule
- Ensure Lighting Controls
  Are Operating Properly
- Use Fans to Reduce Cooling Load
- Use Window
  Treatments/Coverings

- Clean and/or Replace
  HVAC filters
- Check and Seal Duct Leakage
- Perform Proper Boiler
  Maintenance
- Perform Proper Water Heater Maintenance
- Plug Load Controls
- Water Conservation

#### See individual reports for specific EE practices by building



### MEASURES FOR FUTURE CONSIDERATION

- Installation of an Energy Management System
- VRF Systems (Variable Refrigerant Flow)
- Natural Gas Service to Building



## SOLAR ENERGY GENERATION POTENTIAL

	Municipal Utilities
Potential:	MEDIUM
System Potential: (kW)	70
Electric Generation: (kWh per year)	\$83,396
Displaced Cost: (per year)	\$13,090

Transition Incentive (TI) Program:

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



Community Solar Energy Pilot Program:

http://www.NJCleanEnergy.com/ CommunitySolar

## CLEAN ENERGY PROGRAM PORTFOLIO

ELIGIBLE SECTORS

#### INCENTIVE PROGRAMS

**OTHER PROGRAMS** 



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

#### Equipment Rebates:

- SmartStart
- Customer Tailored Energy Efficiency Pilot (CTEEP)
- Direct Install
- Large Energy Users

Whole Buildings:

• Pay for Performance

Energy Generation:

Combined Heat and Power – Fuel Cells

Renewable Energy Generation:

- Transition Incentive (TI) Program
- Community Solar

### RECOMMENDED NJCEP INCENTIVES PER BUILDING

Building Name	Direct Install	SmartStart	CTEEP
Municipal Utilities	Х	Х	Х
Well #7	Х	Х	Х
Borough Office	Х	Х	Х
State Police Barracks	Х	Х	Х
Fire Department	Х	Х	Х
Ambulance Squad	Х	Х	Х

Building Name	Direct Install	SmartStart	CTEEP
Community Center	Х	Х	Х
DPW Garage	Х	Х	Х
DPW Storage	Х	Х	Х
Sewage Treatment Plant	Х	Х	Х
Airport Hangars		Х	Х
Airport Light Building	Х	Х	Х

Some sites with only lighting upgrades will need further assessment for DI eligibility. They are eligible for a full free assessment with the DI Participating Contractor to submit the waiver or to identify other measure/s to enable participation



## DIRECT INSTALL

#### NJCleanEnergy.com/DI

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



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

#### About:

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

#### **Incentives:**

- \$125,000 incentive funding per project/building (<u>\$250K</u> UEZ/OZ/ Local Govt./K-12 Public Schools), or
  - \$250,000 entity cap (<u>\$4MM</u> UEZ/OZ/<u>Local Govt.</u>/K-12 Public Schools)



## DIRECT INSTALL

NJCleanEnergy.com/DI

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

INCENTIVE FUNDING	CUSTOMER
Up to <b>80%</b> of installed cost is paid directly to the contractor	20% of installed cost
All other eligible facilities:	
INCENTIVE FUNDING	CUSTOMER
Up to <b>70%</b> of installed cost is paid directly to the contractor	30% of installed cost





### **Participating Contractor**

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



## SMARTSTART

NJCleanEnergy.com/SSB

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



Qualifications: • All C&I customer types contributing into the Societal Benefits Charge (SBC)

#### About:

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

#### **Incentives:**

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



## SMARTSTART

NJCleanEnergy.com/SSB



### **PRESCRIPTIVE INCENTIVES**

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



#### **DOUBLE INCENTIVES**

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



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

#### CUSTOMER TAILORED ENERGY EFFICIENCY PILOT NJCleanEnergy.com/CTEEP

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

Qualifications: • All C&I customer types contributing into the Societal Benefits Charge (SBC)

#### About:

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

#### **Incentives:**

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

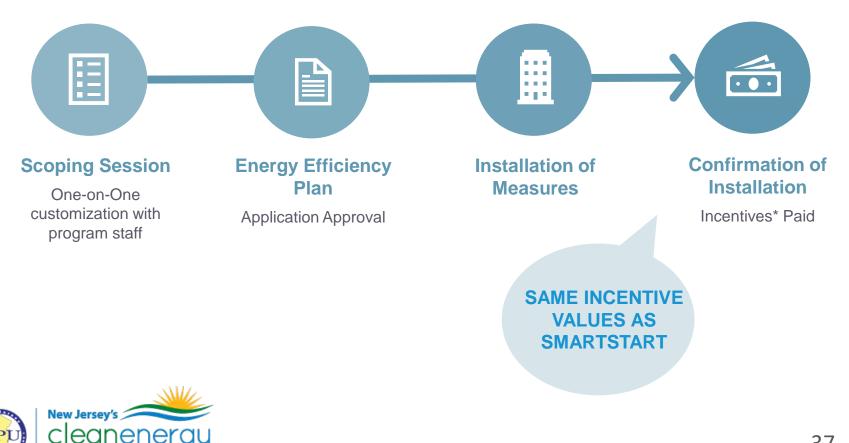
SAME INCENTIVE VALUES AS SMARTSTART



### CTEEP: CUSTOMER TAILORED ENERGY EFFICIENCY PILOT

NJCleanEnergy.com/CTEEF

program<sup>™</sup>



### SMARTSTART, CTEEP, DI,& P4P: FINANCING OPTION

- SJG provides 0% financing options that will cover up to \$130,000 per year.
- 10 year term-repayments made on regular monthly gas bill
- Need to review project with SJG to confirm project qualifies.

• Questions? Contact:

Peter Druckenmiller Program Manager South Jersey Gas 609-572-4271

wdruckenmiller@sjindustries.com







### LOCAL GOVERNMENT FLEETS

Electric vehicles are now included in the State Purchasing Contract!

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

### Questions? EV.programs@bpu.nj.gov



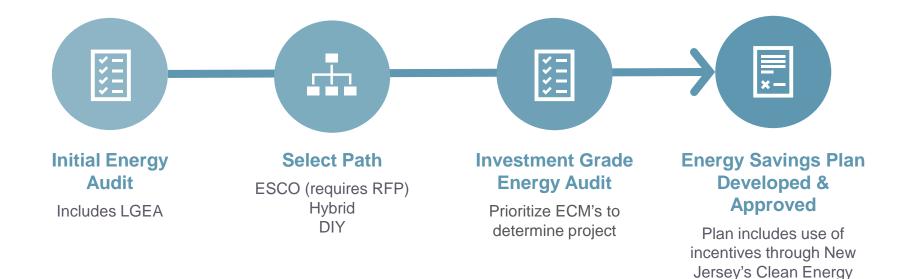
### FINANCING MECHANISM: ESIP

### **ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)**

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



## FINANCING MECHANISM: ESIP



Rew Jersey's Cleanenergy

Program

## ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

### FOR MORE INFORMATION

Michelle Rossi ESIP Coordinator ESIP@bpu.nj.gov o: 609.633.9641 c: 609.915.0903



# FOR MORE INFORMATION

### NJ Clean Energy Program

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## QUESTIONS



