

New Jersey's Clean Energy Program

LGEA Exit Meeting for:
Camden City School District

January 22, 2020



INTRODUCTIONS

- *Camden City School District*
 - Scott Krisanda – Chief Operating Officer
 - Theresa Doggett – Senior Manager of Facilities
 - Alisa Ediger – Facilities Coordinator
- *NJ Clean Energy Program*
 - Aimee Lalonde – LGEA Program Manager
 - Yagna Otia – TRC Auditor
 - Sarah Walters – TRC Account Manager
 - Gary Finger – TRC Outreach Manager
 - Michelle Rossi – ESIP Coordinator (BPU)
 - Arif Welcher – Government/Business Manager (BPU)



AGENDA

- The audit process overview
- Energy use & existing conditions
- Review of **E**nergy **C**onservation **M**easures (ECMs) identified
- Questions regarding the draft audit report
- Overview of NJCEP equipment incentives
- Next steps for Camden City School District



LGEA PROCESS

- Application Approval
- Scheduling Call
- Audit
- Benchmarking & Analysis
- Draft Report
- Exit Meeting 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:

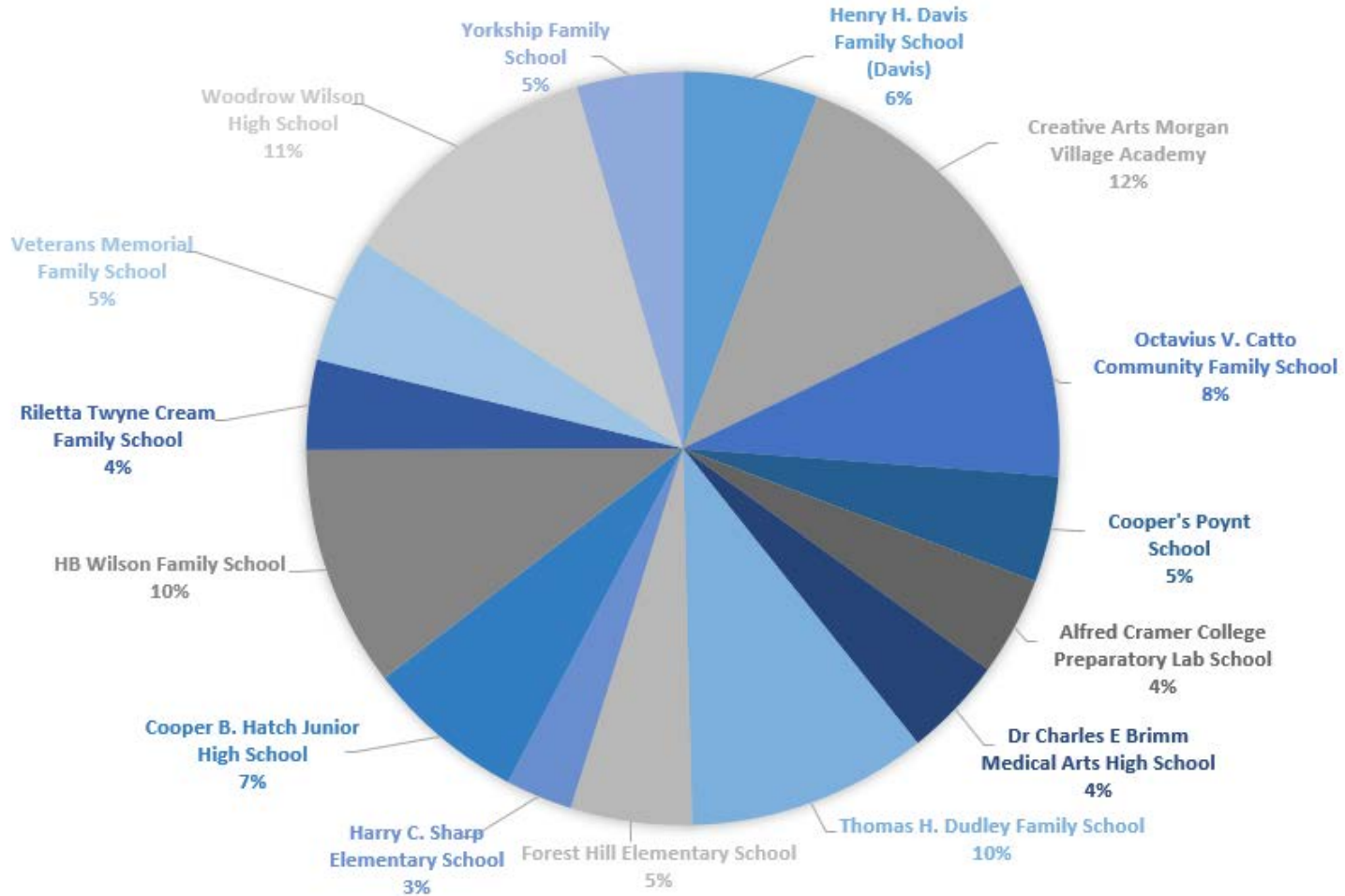
- Electric Consumption and Costs
- Natural Gas Consumption and Costs

Sites Visited/Analyzed:

- Dr. Charles Brimm Medical Arts High School
- Octavius V. Catto Community Family School
- Creative Arms Morgan Village Academy
- Cooper's Poynt School
- Alfred Cramer College Prep Lab School
- Riletta Twyne Cream Family School
- Henry H. Davis Family School
- Thomas H. Dudley Family School
- Forest Hill Elementary School
- Cooper B. Hatch Jr. High School
- Harry C. Sharp Elementary School
- Veterans Memorial Family School
- Woodrow Wilson High School
- Yorkship Family School
- HB Wilson Family School

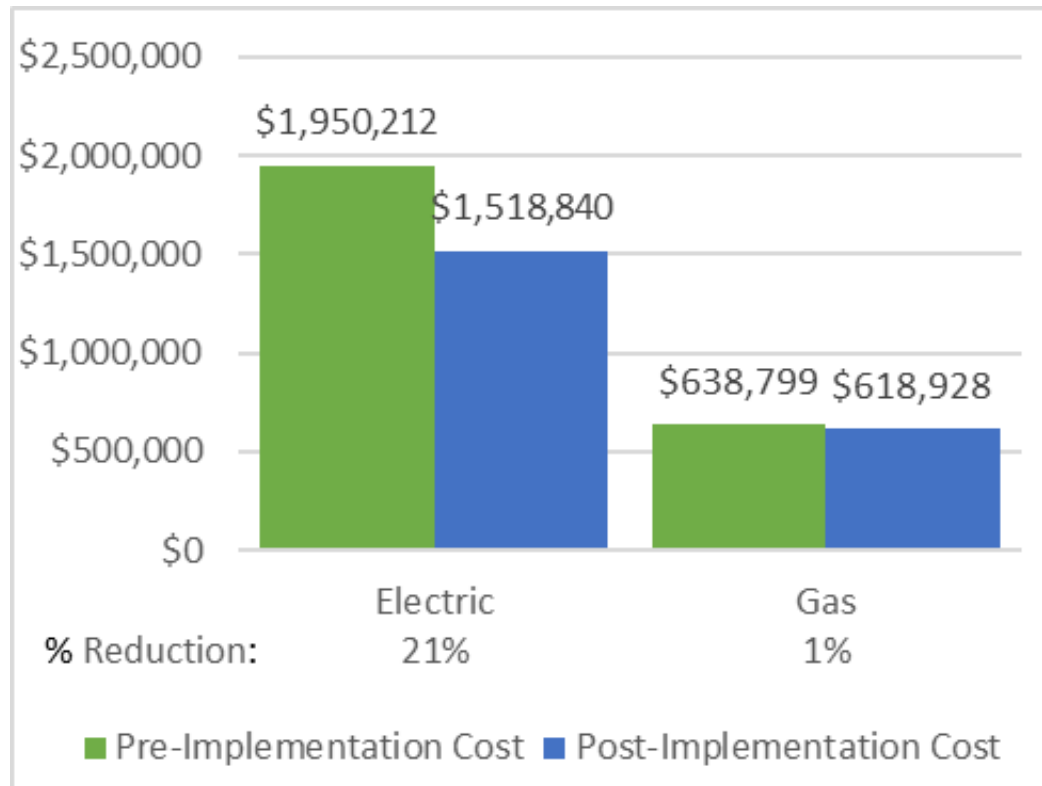
UTILITY BREAKOUT

Percent of Total Annual Energy Costs



UTILITY BREAKOUT

Pre & Post Implementation Cost



BENCHMARKING

ENERGY STAR Statement of Energy Performance

42 Woodrow Wilson High School (WWHS)

Primary Property Type: K-12 School
Gross Floor Area (ft²): 212,266
Built: 1930

For Year Ending: November 30, 2018
Date Generated: October 11, 2019

ENERGY STAR Score¹

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 Woodrow Wilson High School (WWHS) 3100 Federal Street Camden, New Jersey 08105	Property Owner Camden City School District 1033 Cambridge St. Camden, NJ 08105	Primary Contact Scott Wisanda 1033 Cambridge St. Camden, NJ 08105 856-966-2000 ext. 38829 scoppin@camden.k12.nj.us
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Property ID: 6842693

Energy Consumption and Energy Use Intensity (EUI)

Site EUI 86.3 kBtu/ft ²	Annual Energy by Fuel Natural Gas (kBtu) 13,409,834 (73%) Electric - Grid (kBtu) 4,913,655 (27%)	National Median Comparison National Median Site EUI (kBtu/ft ²) 79.7 National Median Source EUI (kBtu/ft ²) 121.1 % Diff from National Median Source EUI 8%
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Source EUI
131.1 kBtu/ft²

Annual Emissions
Greenhouse Gas Emissions (Metric Tons CO₂e/year) 1,210

Signature & Stamp of Verifying Professional

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

Signature: _____ Date: _____

Licensed Professional

_____-_____

Professional Engineer Stamp
(if applicable)

Site EUI
86.3 kBtu/ft²

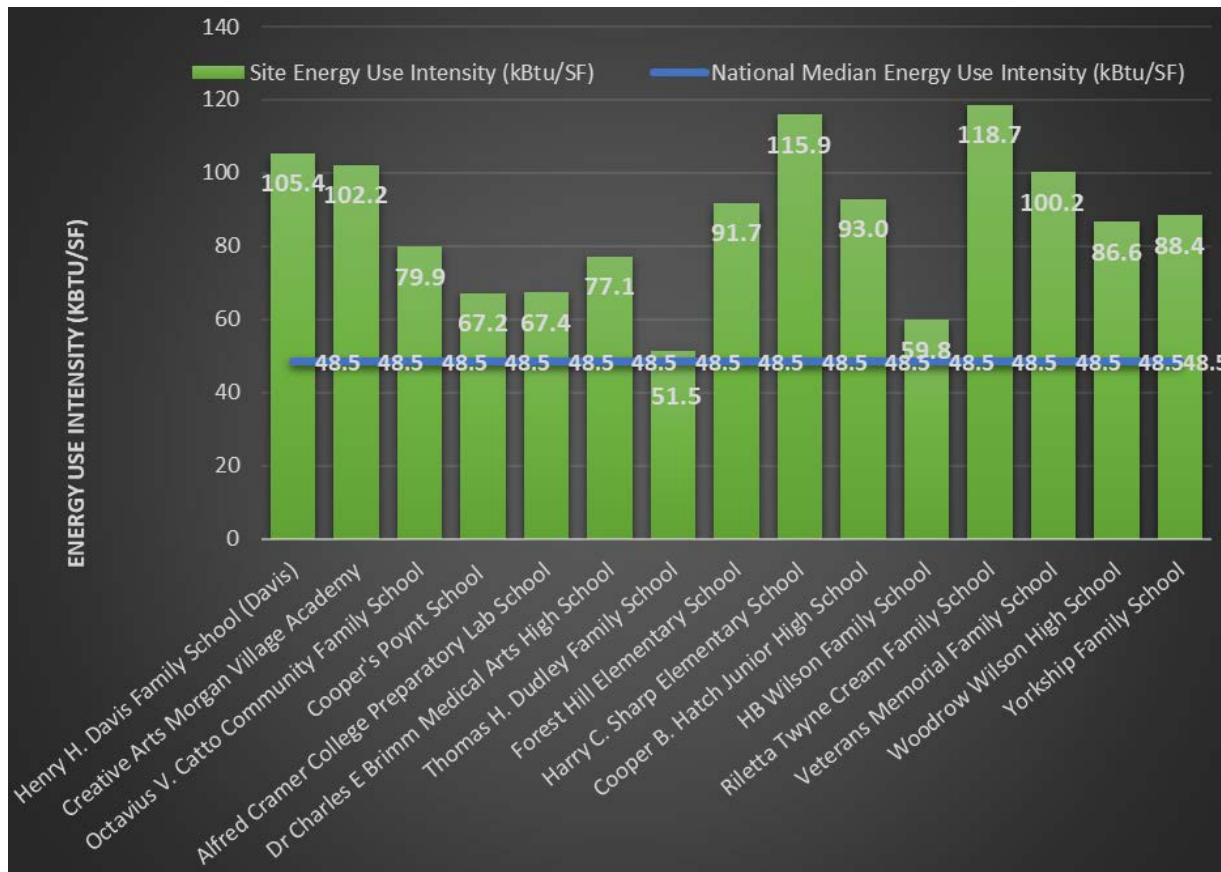
Source EUI
131.1 kBtu/ft²

National Median Comparison

National Median Site EUI (kBtu/ft ²)	79.7
National Median Source EUI (kBtu/ft ²)	121.1
% Diff from National Median Source EUI	8%

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.

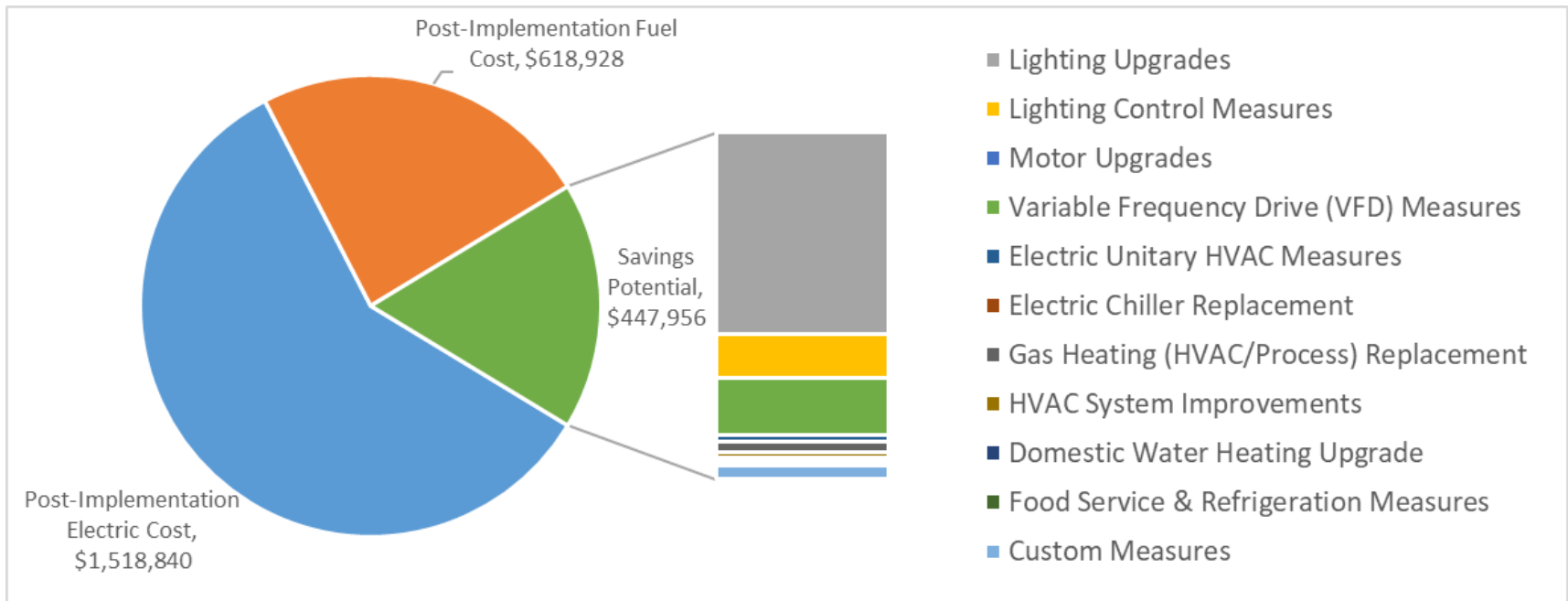
BENCHMARKING



Site Name	Energy Star Score
Davis	16
CAMVA	10
Catto	19
Cooper's Poynt	36
Cramer	58
Brimm	17
Dudley	41
Forest Hill	2
Sharp	14
Hatch	38
HB Wilson	36
Cream	15
Vet	9
WWHS	42
Yorkship	9

ALL OPPORTUNITIES

Savings Potential



ALL OPPORTUNITIES

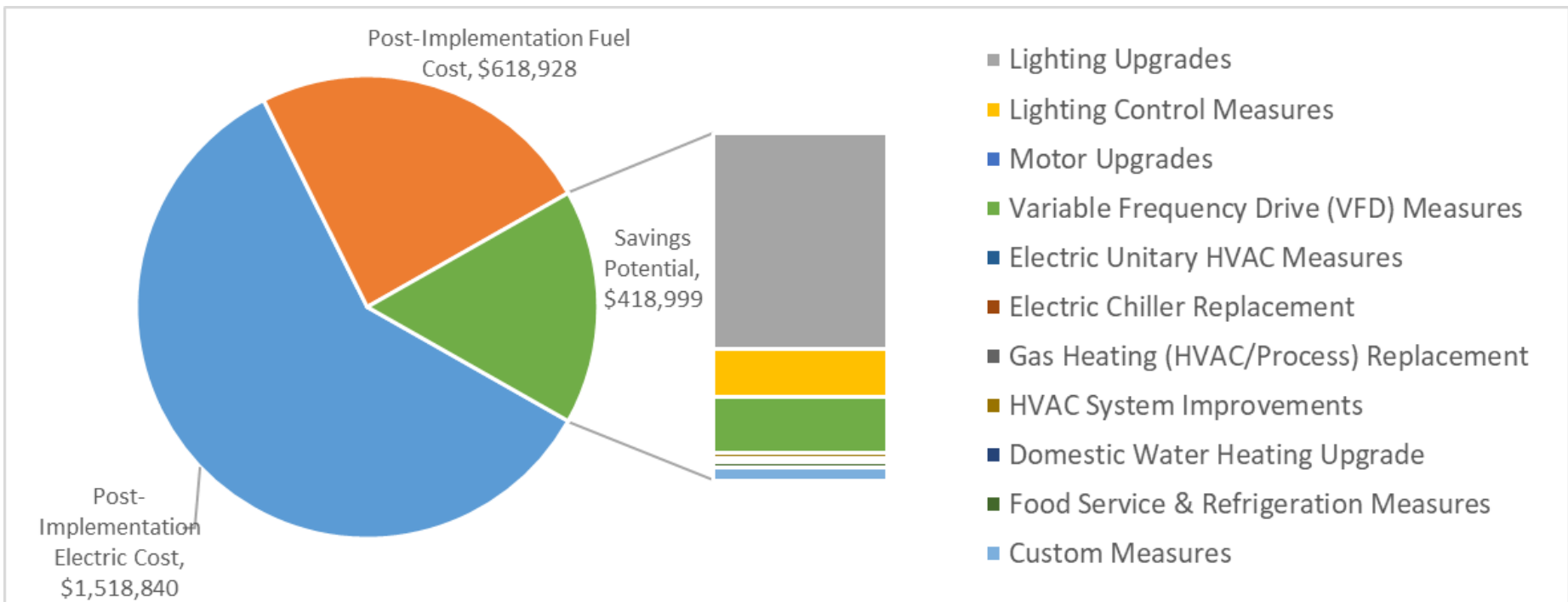
#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		1,808,799	375.4	-342.3	\$259,847	\$764,603	\$338,742	\$425,861	1.6	1,781,367
ECM 1	Install LED Fixtures	113,534	5.9	-6.5	\$17,237	\$159,281	\$36,710	\$122,571	7.1	113,567
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	10,353	2.4	-0.9	\$1,156	\$3,805	\$1,090	\$2,715	2.3	10,324
ECM 3	Retrofit Fixtures with LED Lamps	1,684,912	367.1	-334.9	\$241,454	\$601,516	\$300,942	\$300,574	1.2	1,657,476
Lighting Control Measures		403,610	82.8	-80.4	\$57,552	\$373,801	\$146,665	\$227,136	3.9	397,019
ECM 4	Install Occupancy Sensor Lighting Controls	342,228	70.6	-67.6	\$48,507	\$293,026	\$68,890	\$224,136	4.6	336,703
ECM 5	Install High/Low Lighting Controls	61,382	12.2	-12.8	\$9,044	\$80,775	\$77,775	\$3,000	0.3	60,316
Motor Upgrades		5,623	1.8	0.0	\$764	\$19,310	\$0	\$19,310	25.3	5,662
ECM 6	Premium Efficiency Motors	5,623	1.8	0.0	\$764	\$19,310	\$0	\$19,310	25.3	5,662
Variable Frequency Drive (VFD) Measures		506,877	95.7	35.4	\$73,451	\$567,642	\$69,890	\$497,752	6.8	514,571
ECM 7	Install VFD on Variable Air Volume (VAV) Fans	56,972	13.6	0.0	\$5,257	\$26,311	\$11,850	\$14,461	2.8	57,371
ECM 8	Install VFDs on Constant Volume (CV) Fans	207,617	56.0	0.0	\$32,699	\$152,029	\$30,440	\$121,589	3.7	209,069
ECM 9	Install VFDs on Chilled Water Pumps	19,311	3.7	0.0	\$1,782	\$10,750	\$0	\$10,750	6.0	19,446
ECM 10	Install VFDs on Heating Water Pumps	138,850	22.7	0.0	\$19,778	\$252,315	\$0	\$252,315	12.8	139,821
ECM 11	Install VFDs on Cooling Tower Fans	63,989	-5.5	0.0	\$10,808	\$94,495	\$26,400	\$68,095	6.3	64,436
ECM 12	Install Boiler Draft Fan VFDs	8,925	2.8	0.0	\$1,168	\$11,344	\$0	\$11,344	9.7	8,987
ECM 13	Install VFDs on Boiler Feedwater Pumps	6,563	1.6	0.0	\$882	\$7,768	\$0	\$7,768	8.8	6,609
ECM 14	Install Air Compressors with VFDs	1,869	0.8	0.0	\$242	\$4,076	\$0	\$4,076	16.9	1,882
ECM 15	Install VFDs on Kitchen Hood Fan Motors	2,780	0.0	35.4	\$836	\$8,554	\$1,200	\$7,354	8.8	6,949

ALL OPPORTUNITIES

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Electric Unitary HVAC Measures		49,785	46.7	0.0	\$7,337	\$685,290	\$41,172	\$644,119	87.8	50,133
ECM 16	Install High Efficiency Air Conditioning Units	25,659	24.0	0.0	\$3,656	\$374,016	\$19,662	\$354,355	96.9	25,838
ECM 17	Install High Efficiency Heat Pumps	4,581	2.3	0.0	\$729	\$70,008	\$5,130	\$64,878	89.0	4,613
ECM 18	Install High Efficiency PTAC/PTHP	19,545	20.5	0.0	\$2,952	\$241,266	\$16,380	\$224,886	76.2	19,682
Gas Heating (HVAC/Process) Replacement		0	0.0	1,839.1	\$14,912	\$858,832	\$48,666	\$810,167	54.3	215,338
ECM 19	Install High Efficiency Hot Water Boilers	0	0.0	639.7	\$5,041	\$328,939	\$27,560	\$301,378	59.8	74,895
ECM 20	Install High Efficiency Steam Boilers	0	0.0	1,199.5	\$9,871	\$529,893	\$21,105	\$508,788	51.5	140,442
HVAC System Improvements		24,920	0.0	184.0	\$5,886	\$37,144	\$200	\$36,944	6.3	46,640
ECM 21	Implement Demand Control Ventilation (DCV)	24,920	0.0	132.7	\$5,398	\$36,704	\$0	\$36,704	6.8	40,636
ECM 22	Install Pipe Insulation	0	0.0	51.3	\$489	\$440	\$200	\$240	0.5	6,004
Domestic Water Heating Upgrade		22,047	0.0	274.2	\$5,906	\$26,386	\$6,549	\$19,837	3.4	54,302
ECM 23	Install High Efficiency Gas-Fired Water Heater	0	0.0	52.9	\$486	\$22,952	\$3,115	\$19,837	40.8	6,190
ECM 24	Install Low-Flow DHW Devices	22,047	0.0	221.3	\$5,420	\$3,434	\$3,434	\$0	0.0	48,112
Food Service & Refrigeration Measures		35,119	3.8	58.7	\$5,733	\$23,553	\$4,430	\$19,123	3.3	42,233
ECM 25	Food Service Equipment Replacement	0	0.0	58.7	\$473	\$5,663	\$500	\$5,163	10.9	6,869
ECM 26	Refrigerator/Freezer Case Electrically Commutated Motors	4,610	0.5	0.0	\$719	\$6,369	\$1,680	\$4,689	6.5	4,642
ECM 27	Refrigeration Controls	1,637	0.0	0.0	\$249	\$5,541	\$550	\$4,991	20.0	1,648
ECM 28	Vending Machine Control	28,872	3.3	0.0	\$4,292	\$5,980	\$1,700	\$4,280	1.0	29,074
Custom Measures		72,551	0.0	298.8	\$16,568	\$199,789	\$0	\$199,789	12.1	108,044
ECM 29	Retro-Commissioning Study & HVAC Improvements	72,551	0.0	298.8	\$16,568	\$199,789	\$0	\$199,789	12.1	108,044
TOTALS		2,929,330	606.2	2,267.5	\$447,956	\$3,556,351	\$656,314	\$2,900,037	6.5	3,215,309

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 (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		1,808,799	375.4	-342.3	\$259,847	\$764,603	\$338,742	\$425,861	1.6	1,781,367
ECM 1	Install LED Fixtures	113,534	5.9	-6.5	\$17,237	\$159,281	\$36,710	\$122,571	7.1	113,567
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	10,353	2.4	-0.9	\$1,156	\$3,805	\$1,090	\$2,715	2.3	10,324
ECM 3	Retrofit Fixtures with LED Lamps	1,684,912	367.1	-334.9	\$241,454	\$601,516	\$300,942	\$300,574	1.2	1,657,476
Lighting Control Measures		403,610	82.8	-80.4	\$57,552	\$373,801	\$146,665	\$227,136	3.9	397,019
ECM 4	Install Occupancy Sensor Lighting Controls	342,228	70.6	-67.6	\$48,507	\$293,026	\$68,890	\$224,136	4.6	336,703
ECM 5	Install High/Low Lighting Controls	61,382	12.2	-12.8	\$9,044	\$80,775	\$77,775	\$3,000	0.3	60,316
Motor Upgrades		2,571	0.4	0.0	\$332	\$1,601	\$0	\$1,601	4.8	2,589
ECM 6	Premium Efficiency Motors	2,571	0.4	0.0	\$332	\$1,601	\$0	\$1,601	4.8	2,589
Variable Frequency Drive (VFD) Measures		472,796	84.1	35.4	\$68,183	\$439,757	\$69,890	\$369,867	5.4	480,251
ECM 7	Install VFD on Variable Air Volume (VAV) Fans	56,972	13.6	0.0	\$5,257	\$26,311	\$11,850	\$14,461	2.8	57,371
ECM 8	Install VFDs on Constant Volume (CV) Fans	207,617	56.0	0.0	\$32,699	\$152,029	\$30,440	\$121,589	3.7	209,069
ECM 9	Install VFDs on Chilled Water Pumps	19,311	3.7	0.0	\$1,782	\$10,750	\$0	\$10,750	6.0	19,446
ECM 10	Install VFDs on Heating Water Pumps	104,769	11.0	0.0	\$14,510	\$124,430	\$0	\$124,430	8.6	105,502
ECM 11	Install VFDs on Cooling Tower Fans	63,989	-5.5	0.0	\$10,808	\$94,495	\$26,400	\$68,095	6.3	64,436
ECM 12	Install Boiler Draft Fan VFDs	8,925	2.8	0.0	\$1,168	\$11,344	\$0	\$11,344	9.7	8,987
ECM 13	Install VFDs on Boiler Feedwater Pumps	6,563	1.6	0.0	\$882	\$7,768	\$0	\$7,768	8.8	6,609
ECM 14	Install Air Compressors with VFDs	1,869	0.8	0.0	\$242	\$4,076	\$0	\$4,076	16.9	1,882
ECM 15	Install VFDs on Kitchen Hood Fan Motors	2,780	0.0	35.4	\$836	\$8,554	\$1,200	\$7,354	8.8	6,949

COST EFFECTIVE OPPORTUNITIES

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
HVAC System Improvements		23,696	0.0	177.8	\$5,662	\$34,425	\$200	\$34,225	6.0	44,678
ECM 21	Implement Demand Control Ventilation (DCV)	23,696	0.0	126.5	\$5,174	\$33,986	\$0	\$33,986	6.6	38,674
ECM 22	Install Pipe Insulation	0	0.0	51.3	\$489	\$440	\$200	\$240	0.5	6,004
Domestic Water Heating Upgrade		22,047	0.0	221.3	\$5,420	\$3,434	\$3,434	\$0	0.0	48,112
ECM 24	Install Low-Flow DHW Devices	22,047	0.0	221.3	\$5,420	\$3,434	\$3,434	\$0	0.0	48,112
Food Service & Refrigeration Measures		33,167	3.7	58.7	\$5,434	\$16,799	\$3,560	\$13,239	2.4	40,268
ECM 25	Food Service Equipment Replacement	0	0.0	58.7	\$473	\$5,663	\$500	\$5,163	10.9	6,869
ECM 26	Refrigerator/Freezer Case Electrically Commutated Motors	4,295	0.4	0.0	\$669	\$5,156	\$1,360	\$3,796	5.7	4,325
ECM 28	Vending Machine Control	28,872	3.3	0.0	\$4,292	\$5,980	\$1,700	\$4,280	1.0	29,074
Custom Measures		72,551	0.0	298.8	\$16,568	\$199,789	\$0	\$199,789	12.1	108,044
ECM 29	Retro-Commissioning Study & HVAC Improvements	72,551	0.0	298.8	\$16,568	\$199,789	\$0	\$199,789	12.1	108,044
TOTALS		2,839,237	546.4	369.3	\$418,999	\$1,834,209	\$562,491	\$1,271,717	3.0	2,902,329

* - 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.

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

DR. CHARLES BRIMM MEDICAL ARTS HIGH SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			76,901	20.6	-16	\$12,060	\$39,247	\$18,454	\$20,793	1.7	75,592
ECM 1	Install LED Fixtures	Yes	1,456	0.0	0	\$232	\$4,830	\$1,000	\$3,830	16.5	1,467
ECM 2	Retrofit Fixtures with LED Lamps	Yes	75,445	20.6	-16	\$11,829	\$34,417	\$17,454	\$16,963	1.4	74,125
Lighting Control Measures			20,492	5.6	-4	\$3,213	\$22,995	\$7,995	\$15,000	4.7	20,133
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	18,189	5.0	-4	\$2,852	\$19,170	\$4,200	\$14,970	5.2	17,871
ECM 4	Install High/Low Lighting Controls	Yes	2,302	0.6	0	\$361	\$3,825	\$3,795	\$30	0.1	2,262
Variable Frequency Drive (VFD) Measures			33,408	9.5	10	\$5,428	\$84,260	\$5,100	\$79,160	14.6	34,806
ECM 5	Install VFDs on Heating Water Pumps	No	22,392	10.3	0	\$3,563	\$67,838	\$0	\$67,838	19.0	22,548
ECM 6	Install VFDs on Cooling Tower Fans	Yes	10,049	-0.8	0	\$1,599	\$13,573	\$4,800	\$8,773	5.5	10,119
ECM 7	Install VFDs on Kitchen Hood Fan Motors	Yes	968	0.0	10	\$266	\$2,848	\$300	\$2,548	9.6	2,139
Electric Unitary HVAC Measures			5,601	2.2	0	\$891	\$74,795	\$5,455	\$69,340	77.8	5,640
ECM 8	Install High Efficiency Heat Pumps	No	4,581	2.3	0	\$729	\$70,008	\$5,130	\$64,878	89.0	4,613
ECM 9	Install High Efficiency PTAC/PTHP	No	1,020	-0.1	0	\$162	\$4,787	\$325	\$4,462	27.5	1,027
HVAC System Improvements			0	0.0	26	\$288	\$220	\$100	\$120	0.4	3,002
ECM 10	Install Pipe Insulation	Yes	0	0.0	26	\$288	\$220	\$100	\$120	0.4	3,002
Domestic Water Heating Upgrade			0	0.0	22	\$245	\$165	\$165	\$0	0.0	2,555
ECM 11	Install Low-Flow DHW Devices	Yes	0	0.0	22	\$245	\$165	\$165	\$0	0.0	2,555
Food Service & Refrigeration Measures			3,440	0.3	0	\$547	\$5,540	\$820	\$4,720	8.6	3,464
ECM 12	Refrigerator/Freezer Case Electrically Commutated Motors	No	315	0.0	0	\$50	\$1,213	\$320	\$893	17.8	317
ECM 13	Refrigeration Controls	No	1,171	0.0	0	\$186	\$3,867	\$400	\$3,467	18.6	1,180
ECM 14	Vending Machine Control	Yes	1,954	0.2	0	\$311	\$460	\$100	\$360	1.2	1,968
TOTALS (COST EFFECTIVE MEASURES)			110,363	25.6	37	\$17,981	\$79,508	\$31,914	\$47,594	2.6	115,508
TOTALS (ALL MEASURES)			139,842	38.1	37	\$22,672	\$227,221	\$38,089	\$189,132	8.3	145,193

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

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



OCTAVIUS V. CATTO COMMUNITY FAMILY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$) *	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			136,914	31.0	-22	\$19,747	\$81,608	\$26,640	\$54,968	2.8	135,290
ECM 1	Install LED Fixtures	Yes	30,982	0.0	0	\$4,527	\$17,904	\$390	\$17,514	3.9	31,199
ECM 2	Retrofit Fixtures with LED Lamps	Yes	105,932	31.0	-22	\$15,220	\$63,704	\$26,250	\$37,454	2.5	104,092
Lighting Control Measures			2,015	0.5	0	\$290	\$3,510	\$770	\$2,740	9.5	1,980
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	2,015	0.5	0	\$290	\$3,510	\$770	\$2,740	9.5	1,980
Variable Frequency Drive (VFD) Measures			815	0.0	16	\$303	\$3,010	\$600	\$2,410	8.0	2,640
ECM 4	Install VFDs on Kitchen Hood Fan Motors	Yes	815	0.0	16	\$303	\$3,010	\$600	\$2,410	8.0	2,640
Electric Unitary HVAC Measures			1,969	2.0	0	\$288	\$22,443	\$2,760	\$19,683	68.4	1,982
ECM 5	Install High Efficiency Air Conditioning Units	No	1,969	2.0	0	\$288	\$22,443	\$2,760	\$19,683	68.4	1,982
Domestic Water Heating Upgrade			0	0.0	20	\$234	\$229	\$229	\$0	0.0	2,320
ECM 6	Install Low-Flow DHW Devices	Yes	0	0.0	20	\$234	\$229	\$229	\$0	0.0	2,320
Food Service & Refrigeration Measures			2,398	0.3	0	\$350	\$1,443	\$420	\$1,023	2.9	2,415
ECM 7	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	786	0.1	0	\$115	\$1,213	\$320	\$893	7.8	792
ECM 8	Vending Machine Control	Yes	1,612	0.2	0	\$236	\$230	\$100	\$130	0.6	1,623
TOTALS (COST EFFECTIVE MEASURES)			142,142	31.9	13	\$20,923	\$89,801	\$28,659	\$61,142	2.9	144,646
TOTALS (ALL MEASURES)			144,111	33.8	13	\$21,211	\$112,244	\$31,419	\$80,825	3.8	146,628

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

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CREATIVE ARTS MORGAN VILLAGE ACADEMY

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			126,775	26.8	-23	\$19,693	\$61,592	\$26,194	\$35,398	1.8	124,938
ECM 1	Install LED Fixtures	Yes	14,034	0.0	0	\$2,209	\$16,892	\$3,600	\$13,292	6.0	14,132
ECM 2	Retrofit Fixtures with LED Lamps	Yes	112,741	26.8	-23	\$17,484	\$44,701	\$22,594	\$22,107	1.3	110,806
Lighting Control Measures			27,371	5.6	-6	\$4,244	\$22,950	\$11,455	\$11,495	2.7	26,892
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	21,266	4.4	-4	\$3,297	\$14,850	\$3,640	\$11,210	3.4	20,894
ECM 4	Install High/Low Lighting Controls	Yes	6,104	1.2	-1	\$946	\$8,100	\$7,815	\$285	0.3	5,997
Variable Frequency Drive (VFD) Measures			73,277	9.5	10	\$11,642	\$90,935	\$18,660	\$72,275	6.2	74,954
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	43,279	12.0	0	\$6,811	\$50,343	\$6,360	\$43,983	6.5	43,582
ECM 6	Install VFDs on Cooling Tower Fans	Yes	29,000	-2.5	0	\$4,564	\$37,896	\$12,000	\$25,896	5.7	29,203
ECM 7	Install VFDs on Kitchen Hood Fan Motors	Yes	998	0.0	10	\$267	\$2,696	\$300	\$2,396	9.0	2,170
HVAC System Improvements			5,811	0.0	0	\$919	\$5,438	\$0	\$5,438	5.9	5,903
ECM 8	Implement Demand Control Ventilation (DCV)	Yes	5,811	0.0	0	\$919	\$5,438	\$0	\$5,438	5.9	5,903
Domestic Water Heating Upgrade			0	0.0	12	\$137	\$143	\$143	\$0	0.0	1,444
ECM 9	Install Low-Flow DHW Devices	Yes	0	0.0	12	\$137	\$143	\$143	\$0	0.0	1,444
Food Service & Refrigeration Measures			7,557	0.8	0	\$1,189	\$2,593	\$720	\$1,873	1.6	7,609
ECM 10	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	1,230	0.1	0	\$194	\$1,213	\$320	\$893	4.6	1,239
ECM 11	Vending Machine Control	Yes	6,326	0.7	0	\$996	\$1,380	\$400	\$980	1.0	6,371
TOTALS (COST EFFECTIVE MEASURES)			240,790	42.8	-6	\$37,825	\$183,651	\$57,172	\$126,479	3.3	241,741
TOTALS (ALL MEASURES)			240,790	42.8	-6	\$37,825	\$183,651	\$57,172	\$126,479	3.3	241,741

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

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

COOPER'S POYNT SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			117,132	29.3	-24	\$16,151	\$58,319	\$27,042	\$31,277	1.9	115,191
ECM 1	Install LED Fixtures	Yes	4,397	0.0	0	\$613	\$12,558	\$2,600	\$9,958	16.2	4,428
ECM 2	Retrofit Fixtures with LED Lamps	Yes	112,735	29.3	-24	\$15,538	\$45,762	\$24,442	\$21,320	1.4	110,764
Lighting Control Measures			29,444	7.6	-6	\$4,058	\$27,405	\$11,350	\$16,055	4.0	28,929
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	26,275	6.8	-5	\$3,621	\$21,330	\$5,390	\$15,940	4.4	25,815
ECM 4	Install High/Low Lighting Controls	Yes	3,170	0.8	-1	\$437	\$6,075	\$5,960	\$115	0.3	3,114
Variable Frequency Drive (VFD) Measures			58,103	10.9	0	\$8,102	\$68,296	\$4,000	\$64,296	7.9	58,509
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	25,475	7.4	0	\$3,552	\$12,658	\$4,000	\$8,658	2.4	25,653
ECM 6	Install VFDs on Heating Water Pumps	Yes	32,627	3.5	0	\$4,550	\$55,638	\$0	\$55,638	12.2	32,855
Electric Unitary HVAC Measures			5,029	5.5	0	\$701	\$138,943	\$736	\$138,207	197.1	5,064
ECM 7	Install High Efficiency Air Conditioning Units	No	5,029	5.5	0	\$701	\$138,943	\$736	\$138,207	197.1	5,064
Gas Heating (HVAC/Process) Replacement			0	0.0	218	\$1,684	\$147,227	\$0	\$147,227	87.4	25,520
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	218	\$1,684	\$147,227	\$0	\$147,227	87.4	25,520
HVAC System Improvements			1,954	0.0	16	\$392	\$2,719	\$0	\$2,719	6.9	3,786
ECM 9	Implement Demand Control Ventilation (DCV)	Yes	1,954	0.0	16	\$392	\$2,719	\$0	\$2,719	6.9	3,786
Domestic Water Heating Upgrade			0	0.0	8	\$59	\$57	\$57	\$0	0.0	889
ECM 10	Install Low-Flow DHW Devices	Yes	0	0.0	8	\$59	\$57	\$57	\$0	0.0	889
Food Service & Refrigeration Measures			1,954	0.2	0	\$273	\$460	\$100	\$360	1.3	1,968
ECM 11	Vending Machine Control	Yes	1,954	0.2	0	\$273	\$460	\$100	\$360	1.3	1,968
TOTALS (COST EFFECTIVE MEASURES)			208,588	48.0	-7	\$29,035	\$157,257	\$42,549	\$114,707	4.0	209,272
TOTALS (ALL MEASURES)			213,617	53.5	211	\$31,420	\$443,427	\$43,285	\$400,141	12.7	239,856

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ALFRED CRAMER PREPARATORY LAB SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			76,777	10.8	-18	\$10,837	\$23,703	\$12,694	\$11,009	1.0	75,247
ECM 1	Retrofit Fixtures with LED Lamps	Yes	76,777	10.8	-18	\$10,837	\$23,703	\$12,694	\$11,009	1.0	75,247
Lighting Control Measures			18,144	2.5	-4	\$2,561	\$19,395	\$7,915	\$11,480	4.5	17,783
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	15,081	2.1	-3	\$2,129	\$15,120	\$3,640	\$11,480	5.4	14,780
ECM 3	Install High/Low Lighting Controls	Yes	3,063	0.4	-1	\$432	\$4,275	\$4,275	\$0	0.0	3,002
Variable Frequency Drive (VFD) Measures			39,776	3.8	0	\$5,686	\$48,919	\$0	\$48,919	8.6	40,054
ECM 4	Install VFDs on Heating Water Pumps	Yes	39,776	3.8	0	\$5,686	\$48,919	\$0	\$48,919	8.6	40,054
Electric Unitary HVAC Measures			4,848	1.6	0	\$693	\$23,821	\$2,751	\$21,071	30.4	4,881
ECM 5	Install High Efficiency Air Conditioning Units	No	4,848	1.6	0	\$693	\$23,821	\$2,751	\$21,071	30.4	4,881
Gas Heating (HVAC/Process) Replacement			0	0.0	265	\$2,082	\$120,778	\$18,054	\$102,724	49.3	31,028
ECM 6	Install High Efficiency Hot Water Boilers	No	0	0.0	265	\$2,082	\$120,778	\$18,054	\$102,724	49.3	31,028
HVAC System Improvements			1,224	0.0	6	\$224	\$2,719	\$0	\$2,719	12.1	1,962
ECM 7	Implement Demand Control Ventilation (DCV)	No	1,224	0.0	6	\$224	\$2,719	\$0	\$2,719	12.1	1,962
Domestic Water Heating Upgrade			0	0.0	14	\$112	\$108	\$108	\$0	0.0	1,667
ECM 8	Install Low-Flow DHW Devices	Yes	0	0.0	14	\$112	\$108	\$108	\$0	0.0	1,667
Food Service & Refrigeration Measures			1,954	0.2	0	\$279	\$460	\$100	\$360	1.3	1,968
ECM 9	Vending Machine Control	Yes	1,954	0.2	0	\$279	\$460	\$100	\$360	1.3	1,968
TOTALS (COST EFFECTIVE MEASURES)			136,652	17.3	-8	\$19,476	\$92,585	\$20,817	\$71,768	3.7	136,718
TOTALS (ALL MEASURES)			142,724	18.9	264	\$22,476	\$239,903	\$41,622	\$198,281	8.8	174,589

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RILETTA TWYNE CREAM FAMILY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			95,613	21.7	-20	\$14,236	\$34,598	\$18,612	\$15,986	1.1	93,951
ECM 1	Retrofit Fixtures with LED Lamps	Yes	95,613	21.7	-20	\$14,236	\$34,598	\$18,612	\$15,986	1.1	93,951
Lighting Control Measures			26,108	5.8	-5	\$3,887	\$22,443	\$8,765	\$13,678	3.5	25,651
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	22,531	5.0	-5	\$3,354	\$16,818	\$4,060	\$12,758	3.8	22,137
ECM 3	Install High/Low Lighting Controls	Yes	3,577	0.8	-1	\$533	\$5,625	\$4,705	\$920	1.7	3,514
Motor Upgrades			669	0.2	0	\$101	\$2,654	\$0	\$2,654	26.4	673
ECM 4	Premium Efficiency Motors	No	669	0.2	0	\$101	\$2,654	\$0	\$2,654	26.4	673
Variable Frequency Drive (VFD) Measures			8,191	1.0	0	\$1,233	\$32,759	\$0	\$32,759	26.6	8,248
ECM 5	Install VFDs on Heating Water Pumps	No	8,191	1.0	0	\$1,233	\$32,759	\$0	\$32,759	26.6	8,248
Electric Unitary HVAC Measures			22,112	24.6	0	\$3,330	\$285,487	\$20,070	\$265,417	79.7	22,267
ECM 6	Install High Efficiency Air Conditioning Units	No	3,587	4.0	0	\$540	\$49,008	\$4,015	\$44,993	83.3	3,612
ECM 7	Install High Efficiency PTAC/PTHP	No	18,525	20.6	0	\$2,790	\$236,479	\$16,055	\$220,424	79.0	18,655
Gas Heating (HVAC/Process) Replacement			0	0.0	157	\$1,275	\$60,934	\$9,506	\$51,428	40.3	18,348
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	157	\$1,275	\$60,934	\$9,506	\$51,428	40.3	18,348
Domestic Water Heating Upgrade			0	0.0	14	\$116	\$215	\$215	\$0	0.0	1,667
ECM 9	Install Low-Flow DHW Devices	Yes	0	0.0	14	\$116	\$215	\$215	\$0	0.0	1,667
Food Service & Refrigeration Measures			1,612	0.2	0	\$243	\$230	\$100	\$130	0.5	1,623
ECM 10	Vending Machine Control	Yes	1,612	0.2	0	\$243	\$230	\$100	\$130	0.5	1,623
TOTALS (COST EFFECTIVE MEASURES)			123,333	27.7	-11	\$18,481	\$57,486	\$27,692	\$29,794	1.6	122,892
TOTALS (ALL MEASURES)			154,304	53.4	146	\$24,420	\$439,320	\$57,268	\$382,052	15.6	172,428

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HENRY H. DAVIS FAMILY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			65,399	20.4	-14	\$11,703	\$30,986	\$16,776	\$14,210	1.2	64,256
ECM 1	Retrofit Fixtures with LED Lamps	Yes	65,399	20.4	-14	\$11,703	\$30,986	\$16,776	\$14,210	1.2	64,256
Lighting Control Measures			16,802	5.0	-4	\$3,007	\$26,460	\$11,790	\$14,670	4.9	16,508
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	14,507	4.4	-3	\$2,596	\$19,710	\$5,040	\$14,670	5.7	14,253
ECM 3	Install High/Low Lighting Controls	Yes	2,295	0.7	0	\$411	\$6,750	\$6,750	\$0	0.0	2,255
Electric Unitary HVAC Measures			1,261	1.6	0	\$228	\$94,494	\$8,848	\$85,646	375.3	1,270
ECM 4	Install High Efficiency Air Conditioning Units	No	1,261	1.6	0	\$228	\$94,494	\$8,848	\$85,646	375.3	1,270
Gas Heating (HVAC/Process) Replacement			0	0.0	106	\$1,039	\$160,969	\$0	\$160,969	154.9	12,405
ECM 5	Install High Efficiency Steam Boilers	No	0	0.0	106	\$1,039	\$160,969	\$0	\$160,969	154.9	12,405
HVAC System Improvements			1,639	0.0	0	\$297	\$2,719	\$0	\$2,719	9.2	1,650
ECM 6	Implement Demand Control Ventilation (DCV)	Yes	1,639	0.0	0	\$297	\$2,719	\$0	\$2,719	9.2	1,650
Domestic Water Heating Upgrade			6,395	0.0	19	\$1,340	\$5,242	\$925	\$4,317	3.2	8,617
ECM 7	Install High Efficiency Gas-Fired Water Heater	No	0	0.0	19	\$182	\$4,912	\$595	\$4,317	23.7	2,178
ECM 8	Install Low-Flow DHW Devices	Yes	6,395	0.0	0	\$1,157	\$330	\$330	\$0	0.0	6,440
Food Service & Refrigeration Measures			1,612	0.2	0	\$292	\$230	\$100	\$130	0.4	1,623
ECM 9	Vending Machine Control	Yes	1,612	0.2	0	\$292	\$230	\$100	\$130	0.4	1,623
TOTALS (COST EFFECTIVE MEASURES)			91,847	25.6	-17	\$16,456	\$60,725	\$28,996	\$31,729	1.9	90,477
TOTALS (ALL MEASURES)			93,108	27.2	107	\$17,906	\$321,101	\$38,439	\$282,662	15.8	106,329

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

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THOMAS H. DUDLEY FAMILY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			121,195	27.4	-21	\$22,877	\$69,412	\$26,362	\$43,050	1.9	119,589
ECM 1	Install LED Fixtures	Yes	18,427	0.0	0	\$3,503	\$23,689	\$5,000	\$18,689	5.3	18,555
ECM 2	Retrofit Fixtures with LED Lamps	Yes	102,768	27.4	-21	\$19,374	\$45,723	\$21,362	\$24,361	1.3	101,033
Lighting Control Measures			24,226	5.7	-5	\$4,566	\$23,670	\$9,250	\$14,420	3.2	23,802
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	20,332	4.8	-4	\$3,832	\$17,820	\$3,500	\$14,320	3.7	19,977
ECM 4	Install High/Low Lighting Controls	Yes	3,894	0.9	-1	\$734	\$5,850	\$5,750	\$100	0.1	3,826
Variable Frequency Drive (VFD) Measures			41,491	8.4	0	\$7,887	\$48,495	\$10,160	\$38,335	4.9	41,781
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	28,151	9.6	0	\$5,351	\$23,169	\$5,360	\$17,809	3.3	28,348
ECM 6	Install VFDs on Cooling Tower Fans	Yes	13,340	-1.2	0	\$2,536	\$25,325	\$4,800	\$20,525	8.1	13,433
HVAC System Improvements			6,781	0.0	46	\$1,645	\$9,516	\$0	\$9,516	5.8	12,222
ECM 7	Implement Demand Control Ventilation (DCV)	Yes	6,781	0.0	46	\$1,645	\$9,516	\$0	\$9,516	5.8	12,222
Domestic Water Heating Upgrade			1,472	0.0	0	\$280	\$129	\$129	\$0	0.0	1,482
ECM 8	Install Low-Flow DHW Devices	Yes	1,472	0.0	0	\$280	\$129	\$129	\$0	0.0	1,482
TOTALS (COST EFFECTIVE MEASURES)			195,165	41.6	20	\$37,255	\$151,222	\$45,901	\$105,321	2.8	198,876
TOTALS (ALL MEASURES)			195,165	41.6	20	\$37,255	\$151,222	\$45,901	\$105,321	2.8	198,876

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FOREST HILL ELEMENTARY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			85,924	21.1	0	\$7,928	\$37,255	\$17,294	\$19,961	2.5	86,525
ECM 1	Install LED Fixtures	Yes	798	0.0	0	\$74	\$2,898	\$600	\$2,298	31.2	804
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	6,194	1.5	0	\$571	\$2,476	\$720	\$1,756	3.1	6,237
ECM 3	Retrofit Fixtures with LED Lamps	Yes	78,933	19.5	0	\$7,283	\$31,881	\$15,974	\$15,907	2.2	79,485
Lighting Control Measures			20,935	5.2	0	\$1,932	\$19,357	\$5,380	\$13,977	7.2	21,081
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	20,304	5.0	0	\$1,873	\$17,782	\$4,130	\$13,652	7.3	20,446
ECM 5	Install High/Low Lighting Controls	Yes	631	0.2	0	\$58	\$1,575	\$1,250	\$325	5.6	635
Variable Frequency Drive (VFD) Measures			76,283	17.3	0	\$7,039	\$37,061	\$11,850	\$25,211	3.6	76,816
ECM 6	Install VFD on Variable Air Volume (VAV) Fans	Yes	56,972	13.6	0	\$5,257	\$26,311	\$11,850	\$14,461	2.8	57,371
ECM 7	Install VFDs on Chilled Water Pumps	Yes	19,311	3.7	0	\$1,782	\$10,750	\$0	\$10,750	6.0	19,446
Domestic Water Heating Upgrade			5,700	0.0	0	\$526	\$294	\$294	\$0	0.0	5,740
ECM 8	Install Low-Flow DHW Devices	Yes	5,700	0.0	0	\$526	\$294	\$294	\$0	0.0	5,740
TOTALS (COST EFFECTIVE MEASURES)			188,842	43.5	0	\$17,424	\$93,967	\$34,818	\$59,149	3.4	190,162
TOTALS (ALL MEASURES)			188,842	43.5	0	\$17,424	\$93,967	\$34,818	\$59,149	3.4	190,162

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

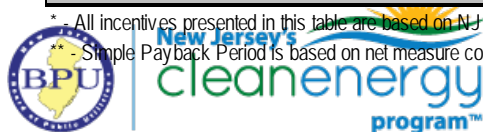
** - Simple Payback Period is based on net measure costs (i.e. after incentives).

COOPER B. HATCH JR. HIGH SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			158,167	26.1	-33	\$20,995	\$43,295	\$19,732	\$23,563	1.1	155,455
ECM 1	Install LED Fixtures	Yes	4,775	0.4	-1	\$638	\$7,069	\$720	\$6,349	10.0	4,747
ECM 2	Retrofit Fixtures with LED Lamps	Yes	153,391	25.6	-32	\$20,357	\$36,226	\$19,012	\$17,214	0.8	150,709
Lighting Control Measures			39,329	6.6	-8	\$5,220	\$33,560	\$13,555	\$20,005	3.8	38,641
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	33,710	5.6	-7	\$4,474	\$25,460	\$6,020	\$19,440	4.3	33,120
ECM 4	Install High/Low Lighting Controls	Yes	5,619	0.9	-1	\$746	\$8,100	\$7,535	\$565	0.8	5,521
Variable Frequency Drive (VFD) Measures			42,774	8.0	0	\$5,750	\$36,446	\$1,920	\$34,526	6.0	43,073
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	15,679	3.8	0	\$2,108	\$15,327	\$1,920	\$13,407	6.4	15,788
ECM 6	Install VFDs on Heating Water Pumps	Yes	17,703	1.7	0	\$2,380	\$9,570	\$0	\$9,570	4.0	17,827
ECM 7	Install Boiler Draft Fan VFDs	Yes	2,829	0.9	0	\$380	\$3,781	\$0	\$3,781	9.9	2,849
ECM 8	Install VFDs on Boiler Feedwater Pumps	Yes	6,563	1.6	0	\$882	\$7,768	\$0	\$7,768	8.8	6,609
Electric Unitary HVAC Measures			2,369	2.5	0	\$319	\$7,273	\$0	\$7,273	22.8	2,386
ECM 9	Install High Efficiency Air Conditioning Units	No	2,369	2.5	0	\$319	\$7,273	\$0	\$7,273	22.8	2,386
Gas Heating (HVAC/Process) Replacement			0	0.0	334	\$2,729	\$106,786	\$11,491	\$95,295	34.9	39,163
ECM 10	Install High Efficiency Steam Boilers	No	0	0.0	334	\$2,729	\$106,786	\$11,491	\$95,295	34.9	39,163
Domestic Water Heating Upgrade			0	0.0	14	\$112	\$194	\$194	\$0	0.0	1,614
ECM 11	Install Low-Flow DHW Devices	Yes	0	0.0	14	\$112	\$194	\$194	\$0	0.0	1,614
Food Service & Refrigeration Measures			4,233	0.4	0	\$569	\$3,201	\$510	\$2,691	4.7	4,263
ECM 12	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	262	0.0	0	\$35	\$607	\$160	\$447	12.7	264
ECM 13	Refrigeration Controls	No	465	0.0	0	\$63	\$1,674	\$150	\$1,524	24.4	469
ECM 14	Vending Machine Control	Yes	3,506	0.4	0	\$471	\$920	\$200	\$720	1.5	3,530
TOTALS (COST EFFECTIVE MEASURES)			244,038	41.0	-27	\$32,583	\$115,021	\$35,761	\$79,260	2.4	242,578
TOTALS (ALL MEASURES)			246,873	43.6	307	\$35,693	\$230,754	\$47,401	\$183,352	5.1	284,596

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

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



HARRY C. SHARP ELEMENTARY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			48,698	11.0	-10	\$6,850	\$22,637	\$9,824	\$12,813	1.9	47,863
ECM 1	Install LED Fixtures	Yes	1,562	0.2	0	\$221	\$5,796	\$1,200	\$4,596	20.8	1,551
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	4,059	0.9	-1	\$571	\$1,279	\$360	\$919	1.6	3,988
ECM 3	Retrofit Fixtures with LED Lamps	Yes	43,077	9.9	-9	\$6,059	\$15,562	\$8,264	\$7,298	1.2	42,324
Lighting Control Measures			12,262	2.7	-3	\$1,725	\$13,455	\$5,610	\$7,845	4.5	12,048
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	9,550	2.1	-2	\$1,343	\$10,530	\$2,730	\$7,800	5.8	9,382
ECM 5	Install High/Low Lighting Controls	Yes	2,712	0.6	-1	\$381	\$2,925	\$2,880	\$45	0.1	2,665
Motor Upgrades			1,235	0.3	0	\$176	\$4,643	\$0	\$4,643	26.4	1,244
ECM 6	Premium Efficiency Motors	No	1,235	0.3	0	\$176	\$4,643	\$0	\$4,643	26.4	1,244
Gas Heating (HVAC/Process) Replacement			0	0.0	52	\$407	\$80,932	\$9,614	\$71,318	175.3	6,080
ECM 7	Install High Efficiency Steam Boilers	No	0	0.0	52	\$407	\$80,932	\$9,614	\$71,318	175.3	6,080
HVAC System Improvements			0	0.0	26	\$201	\$220	\$100	\$120	0.6	3,002
ECM 8	Install Pipe Insulation	Yes	0	0.0	26	\$201	\$220	\$100	\$120	0.6	3,002
Domestic Water Heating Upgrade			3,197	0.0	0	\$455	\$165	\$165	\$0	0.0	3,220
ECM 9	Install Low-Flow DHW Devices	Yes	3,197	0.0	0	\$455	\$165	\$165	\$0	0.0	3,220
Food Service & Refrigeration Measures			1,612	0.2	0	\$229	\$230	\$100	\$130	0.6	1,623
ECM 10	Vending Machine Control	Yes	1,612	0.2	0	\$229	\$230	\$100	\$130	0.6	1,623
TOTALS (COST EFFECTIVE MEASURES)			65,769	13.9	13	\$9,460	\$36,706	\$15,799	\$20,907	2.2	67,755
TOTALS (ALL MEASURES)			67,004	14.2	65	\$10,043	\$122,282	\$25,413	\$96,868	9.6	75,079

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

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

VETERANS MEMORIAL FAMILY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			128,410	25.7	-26	\$17,228	\$77,452	\$33,754	\$43,698	2.5	126,213
ECM 1	Install LED Fixtures	Yes	27,641	5.3	-6	\$3,708	\$45,060	\$17,160	\$27,900	7.5	27,157
ECM 2	Retrofit Fixtures with LED Lamps	Yes	100,769	20.4	-21	\$13,520	\$32,392	\$16,594	\$15,798	1.2	99,056
Lighting Control Measures			28,765	5.7	-6	\$3,858	\$27,148	\$10,600	\$16,548	4.3	28,261
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	24,053	4.8	-5	\$3,226	\$22,198	\$5,650	\$16,548	5.1	23,633
ECM 4	Install High/Low Lighting Controls	Yes	4,711	0.9	-1	\$632	\$4,950	\$4,950	\$0	0.0	4,629
Motor Upgrades			817	0.8	0	\$111	\$9,348	\$0	\$9,348	84.2	822
ECM 5	Premium Efficiency Motors	No	817	0.8	0	\$111	\$9,348	\$0	\$9,348	84.2	822
Variable Frequency Drive (VFD) Measures			48,720	13.2	0	\$6,625	\$23,668	\$7,200	\$16,468	2.5	49,061
ECM 6	Install VFDs on Constant Volume (CV) Fans	Yes	48,720	13.2	0	\$6,625	\$23,668	\$7,200	\$16,468	2.5	49,061
Electric Unitary HVAC Measures			3,235	4.1	0	\$440	\$22,537	\$0	\$22,537	51.2	3,257
ECM 7	Install High Efficiency Air Conditioning Units	No	3,235	4.1	0	\$440	\$22,537	\$0	\$22,537	51.2	3,257
Domestic Water Heating Upgrade			0	0.0	48	\$423	\$18,326	\$2,807	\$15,520	36.7	5,594
ECM 8	Install High Efficiency Gas-Fired Water Heater	No	0	0.0	34	\$304	\$18,040	\$2,520	\$15,520	51.1	4,012
ECM 9	Install Low-Flow DHW Devices	Yes	0	0.0	14	\$120	\$287	\$287	\$0	0.0	1,582
TOTALS (COST EFFECTIVE MEASURES)			205,894	44.6	-19	\$27,831	\$128,554	\$51,841	\$76,714	2.8	205,117
TOTALS (ALL MEASURES)			209,946	49.5	15	\$28,685	\$178,479	\$54,361	\$124,119	4.3	213,209

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

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

WOODROW WILSON HIGH SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			364,280	57.3	-76	\$46,458	\$89,897	\$44,458	\$45,439	1.0	357,954
ECM 1	Install LED Fixtures	Yes	1,835	0.0	0	\$237	\$6,762	\$1,400	\$5,362	22.6	1,847
ECM 2	Retrofit Fixtures with LED Lamps	Yes	362,446	57.3	-76	\$46,221	\$83,135	\$43,058	\$40,077	0.9	356,107
Lighting Control Measures			89,917	13.9	-19	\$11,467	\$60,139	\$22,375	\$37,764	3.3	88,344
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	77,444	12.0	-16	\$9,876	\$48,664	\$11,230	\$37,434	3.8	76,090
ECM 4	Install High/Low Lighting Controls	Yes	12,472	1.9	-3	\$1,591	\$11,475	\$11,145	\$330	0.2	12,254
Motor Upgrades			2,571	0.4	0	\$332	\$1,601	\$0	\$1,601	4.8	2,589
ECM 5	Premium Efficiency Motors	Yes	2,571	0.4	0	\$332	\$1,601	\$0	\$1,601	4.8	2,589
Variable Frequency Drive (VFD) Measures			25,876	5.4	0	\$3,343	\$25,507	\$320	\$25,187	7.5	26,057
ECM 6	Install VFDs on Constant Volume (CV) Fans	Yes	3,248	0.6	0	\$420	\$3,565	\$320	\$3,245	7.7	3,271
ECM 7	Install VFDs on Heating Water Pumps	Yes	14,663	2.1	0	\$1,895	\$10,303	\$0	\$10,303	5.4	14,765
ECM 8	Install Boiler Draft Fan VFDs	Yes	6,096	1.9	0	\$788	\$7,562	\$0	\$7,562	9.6	6,139
ECM 9	Install Air Compressors with VFDs	Yes	1,869	0.8	0	\$242	\$4,076	\$0	\$4,076	16.9	1,882
Electric Unitary HVAC Measures			1,003	1.0	0	\$130	\$4,489	\$552	\$3,937	30.4	1,010
ECM 10	Install High Efficiency Air Conditioning Units	No	1,003	1.0	0	\$130	\$4,489	\$552	\$3,937	30.4	1,010
Gas Heating (HVAC/Process) Replacement			0	0.0	707	\$5,695	\$181,206	\$0	\$181,206	31.8	82,794
ECM 11	Install High Efficiency Steam Boilers	No	0	0.0	707	\$5,695	\$181,206	\$0	\$181,206	31.8	82,794
Domestic Water Heating Upgrade			0	0.0	57	\$459	\$430	\$430	\$0	0.0	6,666
ECM 12	Install Low-Flow DHW Devices	Yes	0	0.0	57	\$459	\$430	\$430	\$0	0.0	6,666
Food Service & Refrigeration Measures			4,292	0.5	59	\$1,027	\$7,796	\$1,020	\$6,776	6.6	11,191
ECM 13	Food Service Equipment Replacement	Yes	0	0.0	59	\$473	\$5,663	\$500	\$5,163	10.9	6,869
ECM 14	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	786	0.1	0	\$102	\$1,213	\$320	\$893	8.8	792
ECM 15	Vending Machine Control	Yes	3,506	0.4	0	\$453	\$920	\$200	\$720	1.6	3,530
TOTALS			487,939	78.5	728	\$68,911	\$371,065	\$69,155	\$301,909	4.4	576,606

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

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

YORKSHIP FAMILY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			86,650	19.7	-17	\$11,530	\$33,755	\$16,998	\$16,757	1.5	85,222
ECM 1	Install LED Fixtures	Yes	2,330	0.0	0	\$314	\$1,335	\$40	\$1,295	4.1	2,346
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	100	0.0	0	\$13	\$51	\$10	\$41	3.0	99
ECM 3	Retrofit Fixtures with LED Lamps	Yes	84,219	19.6	-17	\$11,203	\$32,369	\$16,948	\$15,421	1.4	82,777
Lighting Control Measures			22,678	5.1	-5	\$3,016	\$25,200	\$9,370	\$15,830	5.2	22,281
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	19,208	4.3	-4	\$2,555	\$20,700	\$4,900	\$15,800	6.2	18,872
ECM 5	Install High/Low Lighting Controls	Yes	3,470	0.8	-1	\$462	\$4,500	\$4,470	\$30	0.1	3,409
Motor Upgrades			331	0.1	0	\$45	\$1,064	\$0	\$1,064	23.9	333
ECM 6	Premium Efficiency Motors	No	331	0.1	0	\$45	\$1,064	\$0	\$1,064	23.9	333
Variable Frequency Drive (VFD) Measures			3,498	0.4	0	\$471	\$27,289	\$0	\$27,289	58.0	3,523
ECM 7	Install VFDs on Heating Water Pumps	No	3,498	0.4	0	\$471	\$27,289	\$0	\$27,289	58.0	3,523
Electric Unitary HVAC Measures			2,359	1.7	0	\$317	\$11,007	\$0	\$11,007	34.7	2,375
ECM 8	Install High Efficiency Air Conditioning Units	No	2,359	1.7	0	\$317	\$11,007	\$0	\$11,007	34.7	2,375
HVAC System Improvements			1,540	0.0	26	\$401	\$5,438	\$0	\$5,438	13.6	4,604
ECM 9	Implement Demand Control Ventilation (DCV)	Yes	1,540	0.0	26	\$401	\$5,438	\$0	\$5,438	13.6	4,604
Domestic Water Heating Upgrade			0	0.0	21	\$159	\$323	\$323	\$0	0.0	2,500
ECM 10	Install Low-Flow DHW Devices	Yes	0	0.0	21	\$159	\$323	\$323	\$0	0.0	2,500
Food Service & Refrigeration Measures			1,612	0.2	0	\$217	\$230	\$100	\$130	0.6	1,623
ECM 11	Vending Machine Control	Yes	1,612	0.2	0	\$217	\$230	\$100	\$130	0.6	1,623
TOTALS (COST EFFECTIVE MEASURES)			112,480	25.0	25	\$15,323	\$64,945	\$26,791	\$38,154	2.5	116,230
TOTALS (ALL MEASURES)			118,668	27.1	25	\$16,156	\$104,305	\$26,791	\$77,515	4.8	122,462

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

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

HB WILSON FAMILY SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			119,962	26.8	-23	\$21,553	\$60,846	\$23,908	\$36,938	1.7	118,081
ECM 1	Install LED Fixtures	Yes	5,297	0.0	0	\$963	\$14,489	\$3,000	\$11,489	11.9	5,334
ECM 2	Retrofit Fixtures with LED Lamps	Yes	114,665	26.8	-23	\$20,590	\$46,356	\$20,908	\$25,448	1.2	112,747
Lighting Control Measures			25,124	5.0	-5	\$4,510	\$26,114	\$10,485	\$15,629	3.5	24,685
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	17,763	3.6	-4	\$3,188	\$19,364	\$3,990	\$15,374	4.8	17,453
ECM 4	Install High/Low Lighting Controls	Yes	7,361	1.4	-2	\$1,321	\$6,750	\$6,495	\$255	0.2	7,232
Variable Frequency Drive (VFD) Measures			54,666	8.5	0	\$9,941	\$40,999	\$10,080	\$30,919	3.1	55,048
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	43,066	9.5	0	\$7,832	\$23,299	\$5,280	\$18,019	2.3	43,367
ECM 6	Install VFDs on Cooling Tower Fans	Yes	11,600	-1.0	0	\$2,109	\$17,700	\$4,800	\$12,900	6.1	11,681
HVAC System Improvements			5,970	0.0	38	\$1,519	\$8,157	\$0	\$8,157	5.4	10,508
ECM 7	Implement Demand Control Ventilation (DCV)	Yes	5,970	0.0	38	\$1,519	\$8,157	\$0	\$8,157	5.4	10,508
Domestic Water Heating Upgrade			5,283	0.0	26	\$1,251	\$366	\$366	\$0	0.0	8,326
ECM 8	Install Low-Flow DHW Devices	Yes	5,283	0.0	26	\$1,251	\$366	\$366	\$0	0.0	8,326
Food Service & Refrigeration Measures			2,842	0.3	0	\$517	\$1,140	\$340	\$800	1.5	2,862
ECM 9	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	1,230	0.1	0	\$224	\$910	\$240	\$670	3.0	1,239
ECM 10	Vending Machine Control	Yes	1,612	0.2	0	\$293	\$230	\$100	\$130	0.4	1,623
Custom Measures			72,551	0.0	299	\$16,568	\$199,789	\$0	\$199,789	12.1	108,044
ECM 11	Retro-Commissioning Study & HVAC Improvements	Yes	72,551	0.0	299	\$16,568	\$199,789	\$0	\$199,789	12.1	108,044
TOTALS (COST EFFECTIVE MEASURES)			286,399	40.6	334	\$55,859	\$337,410	\$45,179	\$292,231	5.2	327,555
TOTALS (ALL MEASURES)			286,399	40.6	334	\$55,859	\$337,410	\$45,179	\$292,231	5.2	327,555

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

** - Simple Payback 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 practices by building

CLEAN ENERGY PROGRAM PORTFOLIO

ELIGIBLE SECTORS →

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

INCENTIVE PROGRAMS →

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

OTHER PROGRAMS →

Renewable Energy Generation:

- **SREC Registration Program (SRP)**
- **Community Solar**



SOLAR ENERGY GENERATION POTENTIAL

	Brimm	Catto	CAMVA	Poynt	Cramer	Cream	Davis	Dudley
<i>Potential:</i>	HIGH	HIGH	HIGH	HIGH	HIGH	Medium	HIGH	HIGH
<i>System Potential: (kW)</i>	138	310	302	172	149	54	90	241
<i>Electric Generation: (kWh per year)</i>	164,409	369,325	359,794	204,916	177,514	64,334	107,224	287,120
<i>Displaced Cost: (per year)</i>	\$26,160	\$53,970	\$56,620	\$28,570	\$25,380	\$9,690	\$19,410	\$54,580

SREC Registration Program (SRP):

<http://www.NJCleanEnergy.com/SREC>

Community Solar Energy Pilot Program:

<http://www.NJCleanEnergy.com/CommunitySolar>



SOLAR ENERGY GENERATION POTENTIAL

	Forest Hill	Hatch	Sharp	Vet	WWHS	Yorkship	Wilson
<i>Potential:</i>	HIGH	HIGH	HIGH	Medium	HIGH	Medium	HIGH
<i>System Potential: (kW)</i>	186	150	84	58	289	64	248
<i>Electric Generation: (kWh per year)</i>	221,595	178,705	100,075	69,099	344,306	76,248	295,460
<i>Displaced Cost: (per year)</i>	\$20,450	\$24,020	\$14,240	\$9,400	\$44,490	\$10,260	\$53,730

SREC Registration Program (SRP):

<http://www.NJCleanEnergy.com/SREC>

**Community Solar Energy Pilot
Program:**

<http://www.NJCleanEnergy.com/CommunitySolar>

RECOMMENDED NJCEP INCENTIVES PER BUILDING

	Pay For Performance*	Direct Install	SmartStart	CTEEP
Dr. Charles Brimm Medical Arts HS		X	X	X
Octavius V. Catto Community FS	X		X	X
Creative Arts Morgan Village Academy	X		X	X
Cooper's Poynt School	X	X	X	X
Alfred Cramer College Prep Lab School	X	X	X	X
Riletta Twyne Cream Family School	X	X	X	X
Henry H. Davis Family School			X	X
Thomas Dudley Family School	X		X	X



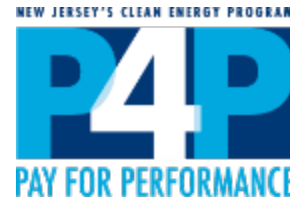
RECOMMENDED NJCEP INCENTIVES PER BUILDING

Entity Name	Pay For Performance*	Direct Install	SmartStart	CTEEP
Forest Hill Elementary School	X		X	X
Cooper B. Hatch Jr. HS	X	X	X	X
Harry C. Sharp Elementary School		X	X	X
Veterans Memorial Family School		X	X	X
Woodrow Wilson HS			X	X
Yorkship Family School		X	X	X
HB Wilson Family School	X		X	X

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

PAY FOR PERFORMANCE

NJCleanEnergy.com/P4P



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

Qualifications: Annual peak demand 200 kW+ in the previous year for existing buildings

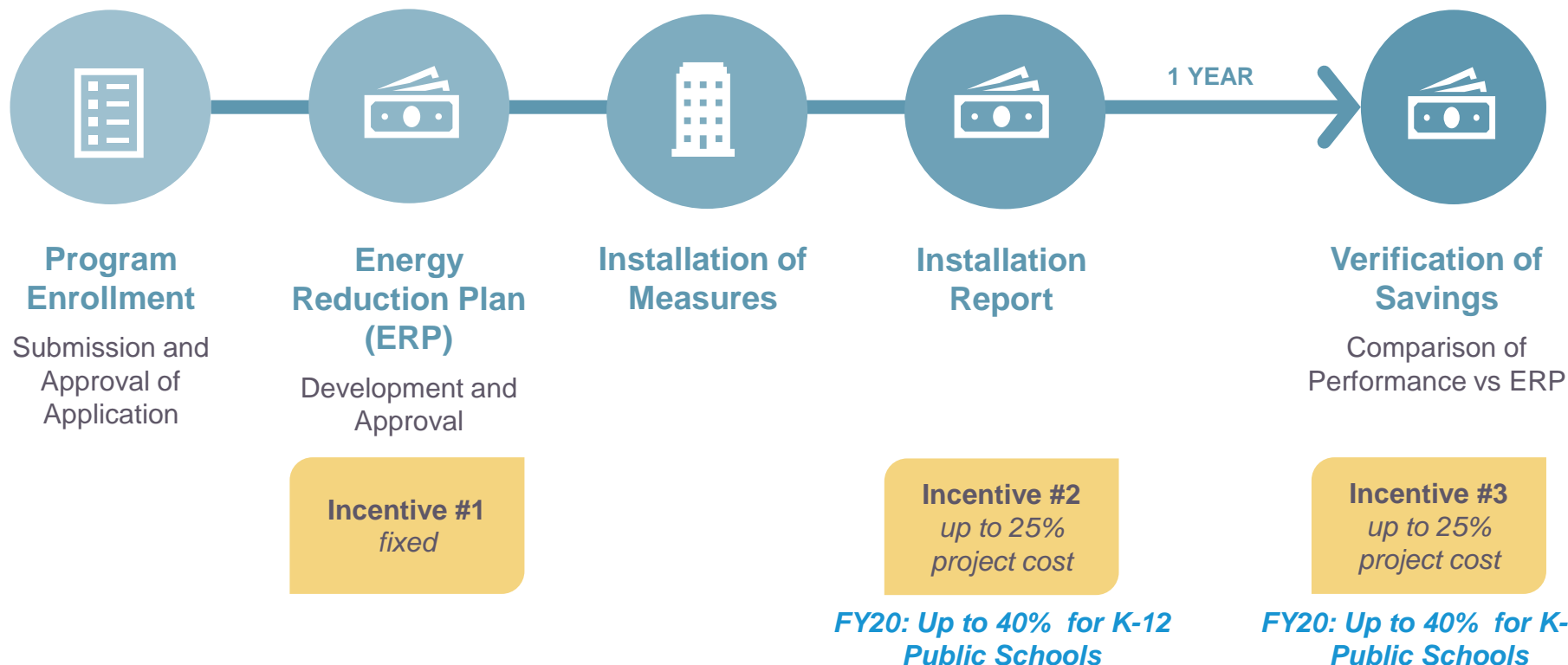
About: Customer choose from a network of pre-approved *Participating Partners*

Incentives:

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

PAY FOR PERFORMANCE

NJCleanEnergy.com/P4P



DIRECT INSTALL

NJCleanEnergy.com/DI



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

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

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

- Incentives:**
- \$125,000 incentive funding per project/building ([\\$250K](#) UEZ/OZ/Local Govt./[K-12 Public Schools](#)), or
 - \$250,000 entity cap ([\\$4MM](#) UEZ/OZ/Local Govt./[K-12 Public Schools](#))

DIRECT INSTALL

NJCleanEnergy.com/DI

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

INCENTIVE FUNDING

CUSTOMER

Up to **80%** of installed cost is paid directly to the contractor

20% of installed cost

All other eligible facilities:

INCENTIVE FUNDING

CUSTOMER

Up to **70%** of installed cost is paid directly to the contractor

30% of installed cost



DIRECT INSTALL

NJCleanEnergy.com/DI

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 all 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

- Lighting & Lighting Controls
- Packaged HVAC
- Boilers & Water Heaters
- Chillers
- VFD's
- Food Service
- Refrigeration

Prescriptive Only:

**DOUBLE
INCENTIVES FOR
OZ/UEZ/ LOCAL
GOVT./K-12 PUBLIC
SCHOOLS**

Custom Incentives

- New or innovative technologies proven to be cost-effective and not listed as prescriptive
- Projects must have a minimum first year energy savings of 75,000 kWh or 1,500 therms
- 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:

- \$250,000 fiscal year entity cap
- Technical assistance incentives for custom project evaluation (up to \$10K)

**SAME INCENTIVE
VALUES AS
SMARTSTART**

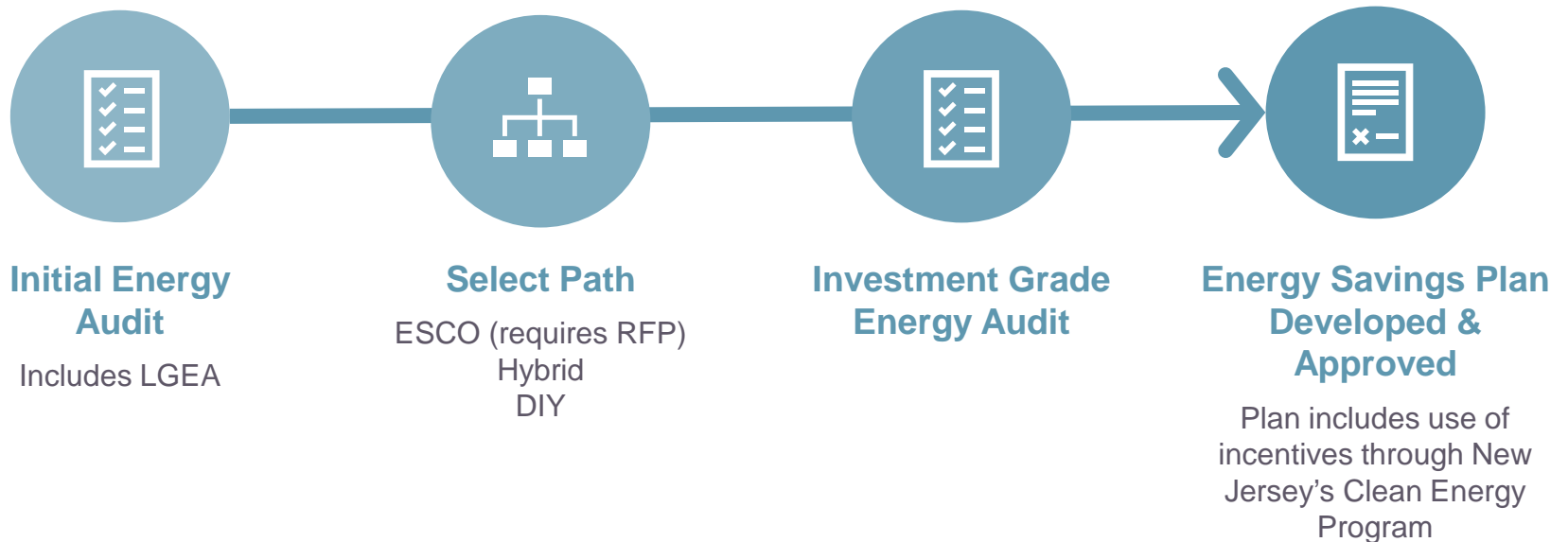
FINANCING MECHANISM: ESIP

ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- Provides alternative financing for energy savings projects at public institutions
- Administered directly by the BPU
- Value of energy savings leveraged to pay for cost of EE projects over a 15 year contract
- Requires NO new bonding and is outside of capital budget
- Does not count as debt or require voter approval



FINANCING MECHANISM: ESIP



ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

FOR MORE INFORMATION

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FOR MORE INFORMATION

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QUESTIONS

