

LGEA Presentation

Cranford Public Schools

July 16, 2024

New Jersey's
Clean Energy Program

Lighting the way to New Jersey's Clean Energy Future



INTRODUCTIONS

- *Cranford Public Schools*

- Robert Carfagno
- Marci Krasny
- Mario Cunha
- Greg Burns – DCO
- Robert Padovano – DCO
- Stephen Secora – LAN Associates

- *NJ Clean Energy Program*

- Sarah Walters – LGEA Project Manager
- Moussa Traore – LGEA Technical Manager
- Bibek Raut – LGEA Project Auditor

- *Utility Energy Efficiency Programs*

- Kimberley Byk – Elizabethtown Gas
- Casey Hennessy – Elizabethtown Gas

AGENDA

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

LGEA PROCESS

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



SITE VISIT & UTILITY ANALYSIS

Overview of Systems, Baseline & Existing Conditions:

- Building Envelope
- Lighting System
- HVAC and Mechanical Systems
- Plug Load Equipment
- Building Automation Systems (BAS)
- Cooking & Refrigeration Systems

Utility Consumption:

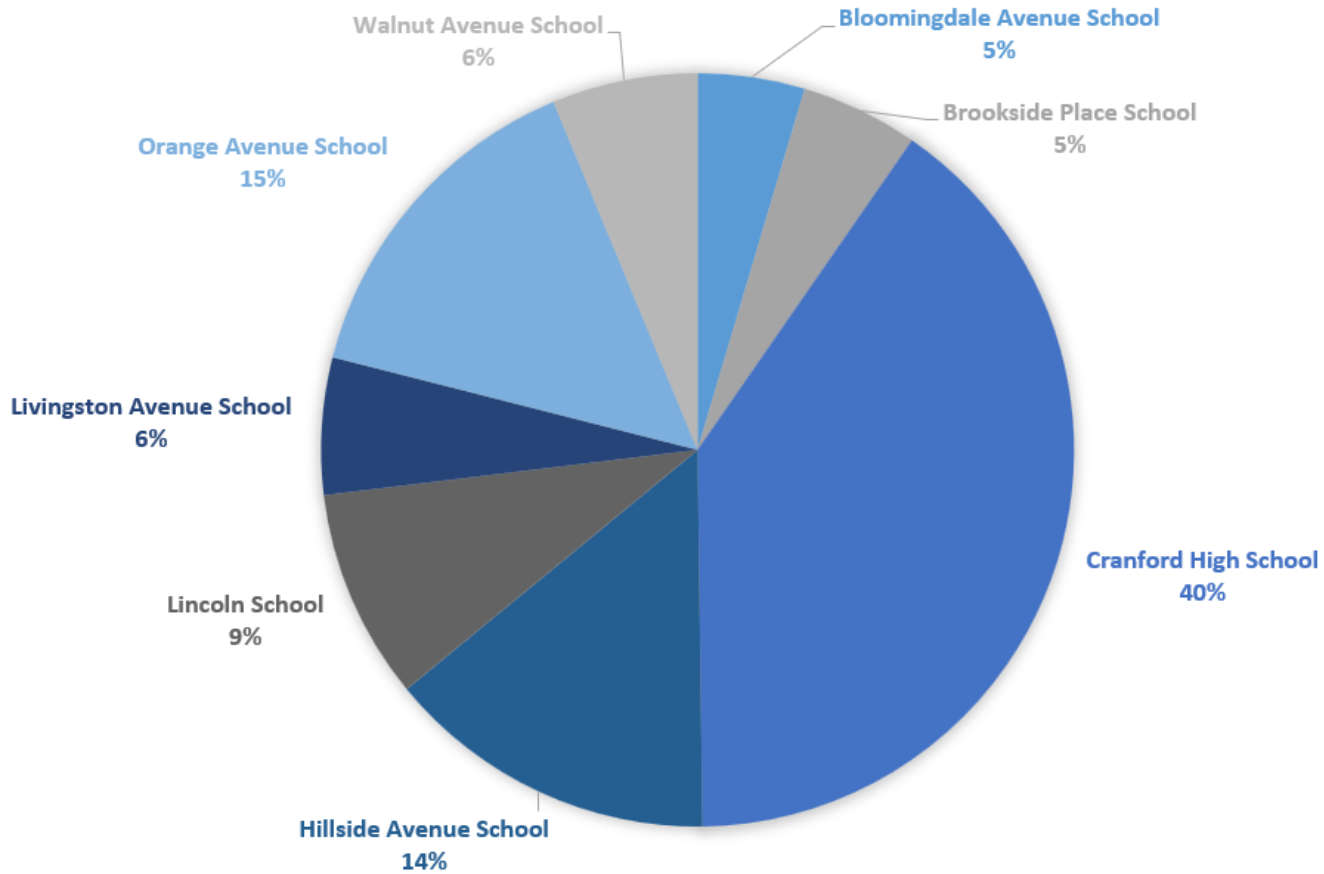
- Electric Consumption and Costs
- Natural Gas Consumption and Costs
- Water Consumption and Costs

Sites Visited/Analyzed

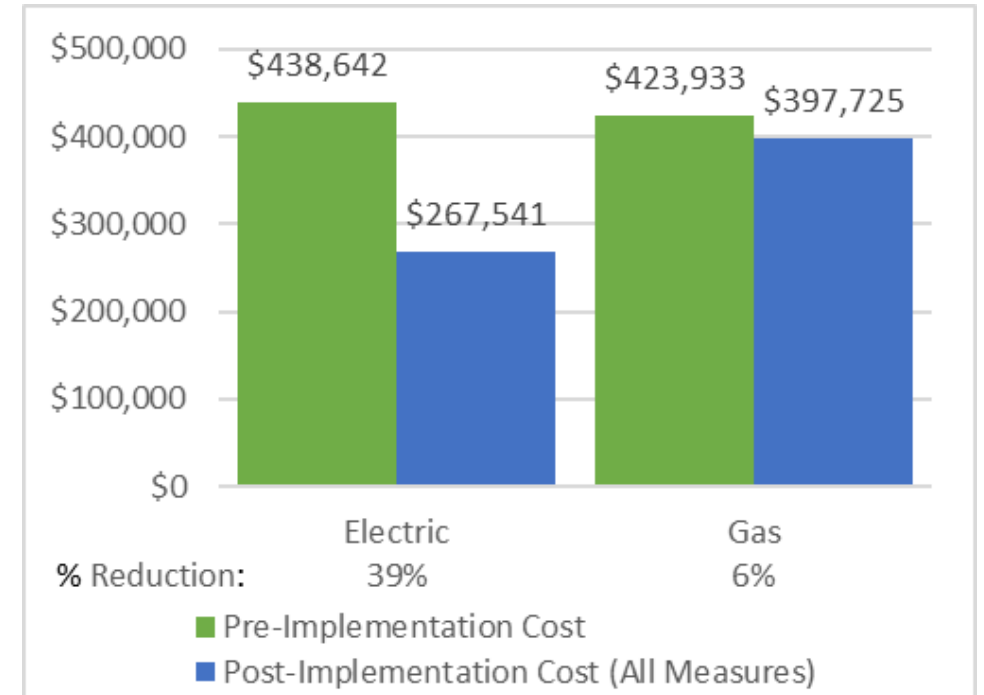
- Bloomingdale Avenue School
- Brookside Place School
- Cranford High School
- Hillside Avenue School
- Lincoln School (CAP)
- Livingston Ave School
- Orange Avenue School
- Walnut Avenue School

UTILITY BREAKOUT


Percent of Total Annual Energy Costs



Pre & Post Implementation Cost



BENCHMARKING


ENERGY STAR® Statement of Energy Performance
LEARN MORE AT energystar.gov

59

ENERGY STAR® Score¹

Bloomington Avenue School
 Primary Property Type: K-12 School
 Gross Floor Area (ft²): 26,000
 Built: 1957
 For Year Ending: July 31, 2023
 Date Generated: March 24, 2024

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 Bloomington Avenue School 200 Bloomington Ave Cranford, New Jersey 07016	Property Owner Cranford Public Schools 132 Thomas Street Cranford, NJ 07016 (908) 709-6213	Primary Contact Robert Carfagno 132 Thomas Street Cranford, NJ 07016 (908) 709-6213 carfagno@cranfordschools.org
---	---	--

Property ID: 32316048

Energy Consumption and Energy Use Intensity (EUI)

Site EUI 68.6 kBtu/ft²	Annual Energy by Fuel Electricity (kBtu) 349,559 (20%) Natural Gas (kBtu) 1,433,161 (80%)	National Median Comparison National Median Site EUI (kBtu/ft²) 75.8 National Median Source EUI (kBtu/ft²) 105.7 % Diff from National Median Source EUI -10% Annual Emissions Total (Location-Based) GHG Emissions 108 (Metric Tons CO2e/year)
----------------------------------	--	--

Signature & Stamp of Verifying Professional

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

LP Signature: _____ Date: _____

Licensed Professional

() _____

Professional Engineer or Registered Architect Stamp (if applicable)

Site EUI
68.6 kBtu/ft²

Source EUI
95.5 kBtu/ft²

National Median Comparison

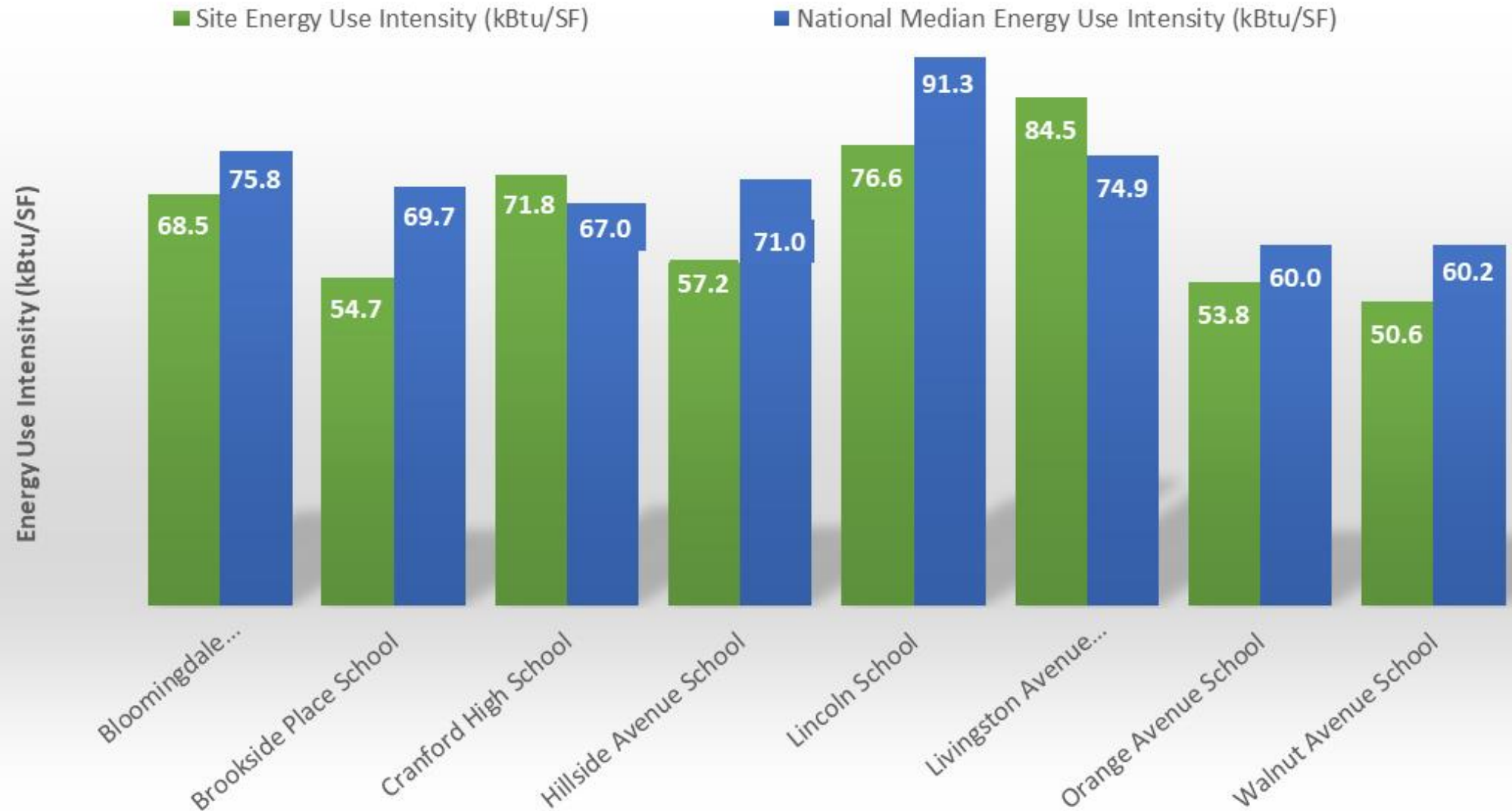
National Median Site EUI (kBtu/ft²)	75.8
National Median Source EUI (kBtu/ft²)	105.7
% Diff from National Median Source EUI	-10%

Site Name	ENERGY STAR® Score
Bloomington Ave School	59
Brookside Place School	72
Cranford High School	43
Hillside Ave School	70
Lincoln School	N/A
Livingston Ave School	37
Orange Ave School	60
Walnut Ave School	66

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.

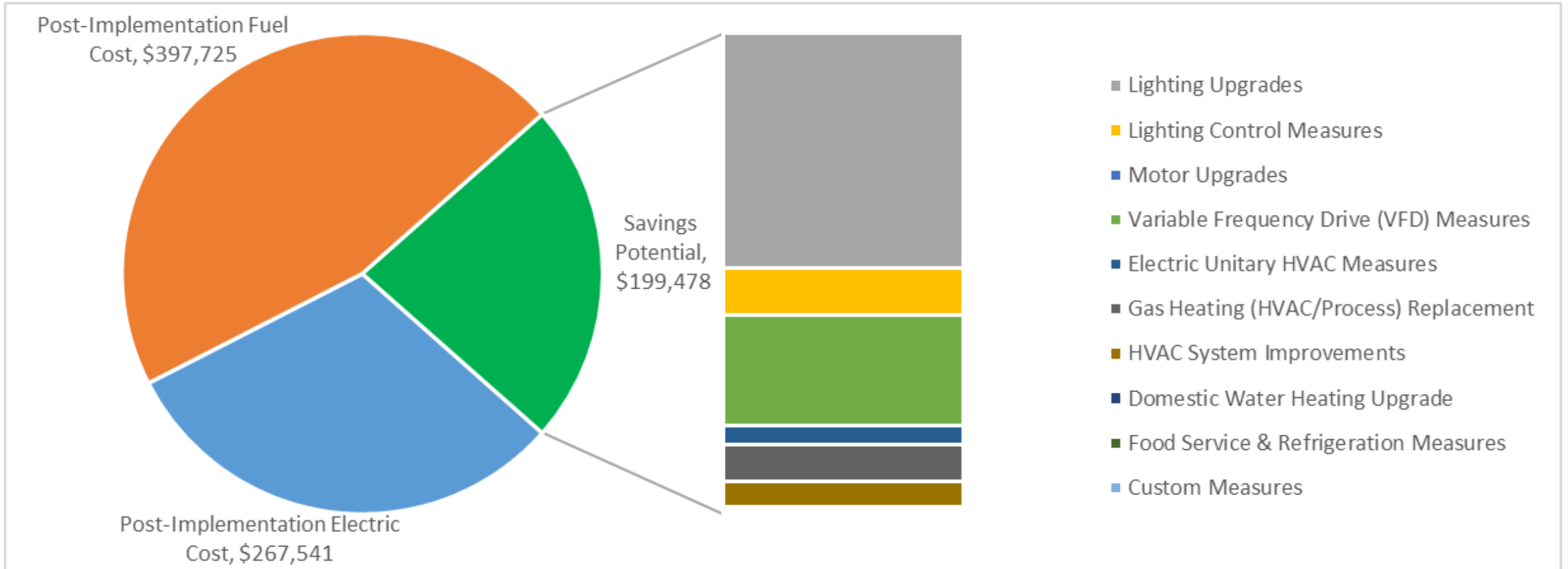
If a building scores 75 or higher, it is eligible to be certified as an ENERGY STAR® building

BENCHMARKING



ALL OPPORTUNITIES

Savings Potential



ALL OPPORTUNITIES (1 OF 2)

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		677,524	163.8	-144.8	\$97,494	\$388,530	\$79,270	\$309,260	3.2	665,306
ECM 1	Install LED Fixtures	324	0.0	0.0	\$53	\$340	\$0	\$340	6.4	326
ECM 2	Retrofit Fixtures with LED Lamps	669,781	163.2	-143.3	\$96,432	\$383,320	\$79,270	\$304,050	3.2	657,689
ECM 3	Install LED Exit Signs	7,420	0.6	-1.6	\$1,009	\$4,870	\$0	\$4,870	4.8	7,290
Lighting Control Measures		130,630	29.2	-28.2	\$19,384	\$172,910	\$43,690	\$129,220	6.7	128,246
ECM 4	Install Occupancy Sensor Lighting Controls	103,477	24.1	-22.2	\$15,258	\$131,790	\$15,060	\$116,730	7.7	101,599
ECM 5	Install High/Low Lighting Controls	27,153	5.1	-5.9	\$4,126	\$41,120	\$28,630	\$12,490	3.0	26,647
Motor Upgrades		1,595	0.5	0.0	\$299	\$26,000	\$0	\$26,000	87.0	1,606
ECM 6	Premium Efficiency Motors	1,595	0.5	0.0	\$299	\$26,000	\$0	\$26,000	87.0	1,606
Variable Frequency Drive (VFD) Measures		316,433	74.6	0.0	\$45,616	\$787,100	\$35,600	\$751,500	16.5	318,646
ECM 7	Install VFDs on Constant Volume (CV) Fans	198,388	54.3	0.0	\$28,370	\$221,600	\$19,900	\$201,700	7.1	199,775
ECM 8	Install VFDs on Chilled Water Pumps	4,541	1.1	0.0	\$638	\$16,500	\$200	\$16,300	25.6	4,573
ECM 9	Install VFDs on Heating Water Pumps	113,504	19.2	0.0	\$16,608	\$549,000	\$15,500	\$533,500	32.1	114,298
Unitary HVAC Measures		50,771	34.6	6.6	\$7,773	\$224,400	\$5,700	\$218,700	28.1	51,898
ECM 10	Install High Efficiency Air Conditioning Units	19,064	16.0	6.6	\$3,131	\$170,500	\$4,200	\$166,300	53.1	19,970
ECM 11	Install High Efficiency Heat Pumps	31,706	18.6	0.0	\$4,642	\$53,900	\$1,500	\$52,400	11.3	31,928

ALL OPPORTUNITIES (2 OF 2)

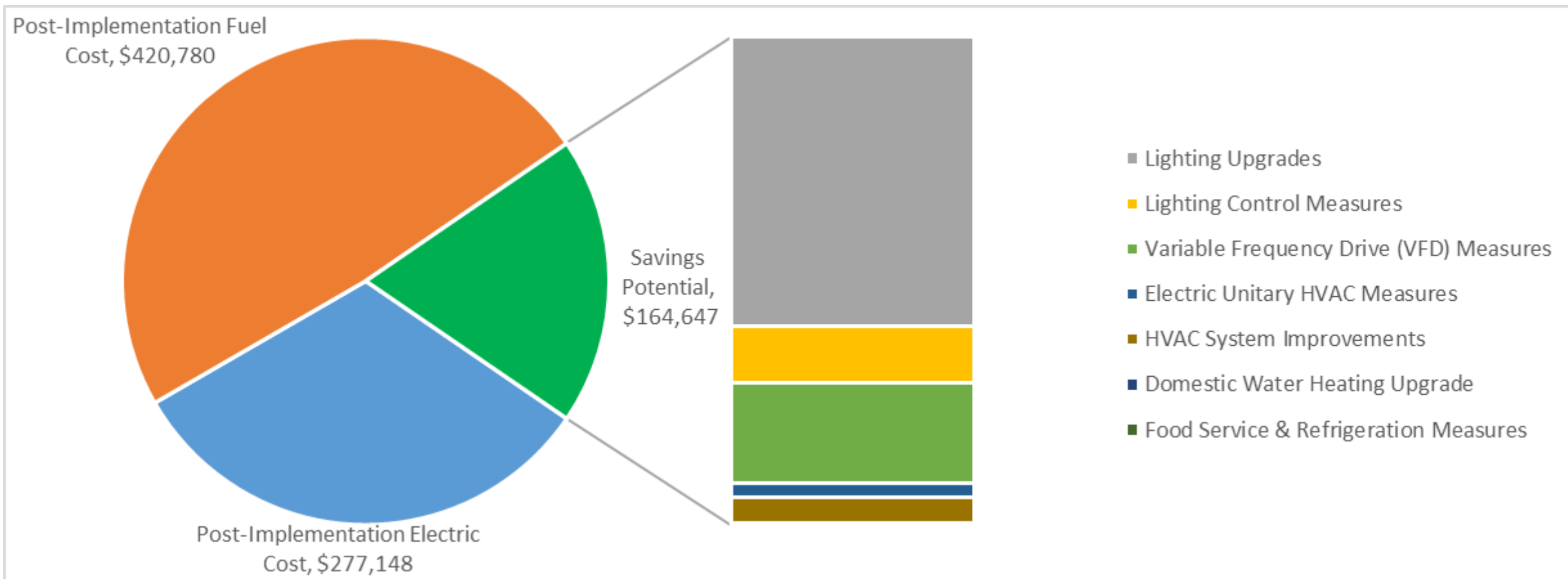
#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Unitary HVAC Measures		50,771	34.6	6.6	\$7,773	\$224,400	\$5,700	\$218,700	28.1	51,898
ECM 10	Install High Efficiency Air Conditioning Units	19,064	16.0	6.6	\$3,131	\$170,500	\$4,200	\$166,300	53.1	19,970
ECM 11	Install High Efficiency Heat Pumps	31,706	18.6	0.0	\$4,642	\$53,900	\$1,500	\$52,400	11.3	31,928
Gas Heating (HVAC/Process) Replacement		0	0.0	1,148.1	\$15,625	\$1,821,800	\$78,700	\$1,743,100	111.6	134,428
ECM 12	Install High Efficiency Hot Water Boilers	0	0.0	759.7	\$10,450	\$1,162,300	\$64,700	\$1,097,600	105.0	88,954
ECM 13	Install High Efficiency Steam Boilers	0	0.0	388.4	\$5,176	\$659,500	\$14,000	\$645,500	124.7	45,474
HVAC System Improvements		25,313	0.0	485.7	\$10,070	\$66,580	\$1,180	\$65,400	6.5	82,356
ECM 14	Implement Demand Control Ventilation (DCV)	25,313	0.0	248.9	\$6,807	\$58,000	\$0	\$58,000	8.5	54,628
ECM 15	Install Pipe Insulation	0	0.0	236.8	\$3,263	\$8,580	\$1,180	\$7,400	2.3	27,728
Domestic Water Heating Upgrade		0	0.0	90.9	\$1,239	\$40,800	\$1,820	\$38,980	31.5	10,640
ECM 16	Install Tankless Water Heater	0	0.0	56.3	\$771	\$40,100	\$1,500	\$38,600	50.0	6,588
ECM 17	Install Low-Flow DHW Devices	0	0.0	34.6	\$468	\$700	\$320	\$380	0.8	4,052
Food Service & Refrigeration Measures		6,364	0.4	0.0	\$894	\$15,350	\$790	\$14,560	16.3	6,408
ECM 18	Refrigerator/Freezer Case Electrically Commutated Motors	2,273	0.3	0.0	\$319	\$2,990	\$320	\$2,670	8.4	2,289
ECM 19	Refrigeration Controls	4,091	0.1	0.0	\$575	\$12,360	\$470	\$11,890	20.7	4,120
Custom Measures		-39,687	0.0	424.0	-\$1,084	\$17,100	\$0	\$17,100	-15.8	9,681
ECM 20	Replace Gas Fired Water Heater with Heat Pump Water Heater	-39,687	0.0	424.0	-\$1,084	\$17,100	\$0	\$17,100	-15.8	9,681
TOTALS (ALL MEASURES)		1,168,943	303.1	1,982.3	\$197,310	\$3,560,570	\$246,750	\$3,313,820	16.8	1,409,214

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

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

COST EFFECTIVE OPPORTUNITIES

Savings Potential



COST EFFECTIVE OPPORTUNITIES

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		677,524	163.8	-144.8	\$97,494	\$388,530	\$79,270	\$309,260	3.2	665,306
ECM 1	Install LED Fixtures	324	0.0	0.0	\$53	\$340	\$0	\$340	6.4	326
ECM 2	Retrofit Fixtures with LED Lamps	669,781	163.2	-143.3	\$96,432	\$383,320	\$79,270	\$304,050	3.2	657,689
ECM 3	Install LED Exit Signs	7,420	0.6	-1.6	\$1,009	\$4,870	\$0	\$4,870	4.8	7,290
Lighting Control Measures		130,630	29.2	-28.2	\$19,384	\$172,910	\$43,690	\$129,220	6.7	128,246
ECM 4	Install Occupancy Sensor Lighting Controls	103,477	24.1	-22.2	\$15,258	\$131,790	\$15,060	\$116,730	7.7	101,599
ECM 5	Install High/Low Lighting Controls	27,153	5.1	-5.9	\$4,126	\$41,120	\$28,630	\$12,490	3.0	26,647
Variable Frequency Drive (VFD) Measures		240,651	51.2	0.0	\$33,762	\$198,400	\$21,400	\$177,000	5.2	242,334
ECM 7	Install VFDs on Constant Volume (CV) Fans	175,437	41.6	0.0	\$24,732	\$140,400	\$14,900	\$125,500	5.1	176,663
ECM 9	Install VFDs on Heating Water Pumps	65,215	9.6	0.0	\$9,030	\$58,000	\$6,500	\$51,500	5.7	65,671
Unitary HVAC Measures		31,706	18.6	0.0	\$4,642	\$53,900	\$1,500	\$52,400	11.3	31,928
ECM 11	Install High Efficiency Heat Pumps	31,706	18.6	0.0	\$4,642	\$53,900	\$1,500	\$52,400	11.3	31,928
HVAC System Improvements		25,313	0.0	377.9	\$8,578	\$20,620	\$820	\$19,800	2.3	69,732
ECM 14	Implement Demand Control Ventilation (DCV)	25,313	0.0	149.3	\$5,426	\$14,500	\$0	\$14,500	2.7	42,973
ECM 15	Install Pipe Insulation	0	0.0	228.5	\$3,152	\$6,120	\$820	\$5,300	1.7	26,758
Domestic Water Heating Upgrade		0	0.0	34.6	\$468	\$700	\$320	\$380	0.8	4,052
ECM 17	Install Low-Flow DHW Devices	0	0.0	34.6	\$468	\$700	\$320	\$380	0.8	4,052
Food Service & Refrigeration Measures		2,273	0.3	0.0	\$319	\$2,990	\$320	\$2,670	8.4	2,289
ECM 18	Refrigerator/Freezer Case Electrically Commutated Motors	2,273	0.3	0.0	\$319	\$2,990	\$320	\$2,670	8.4	2,289
TOTALS		1,108,098	263.1	239.5	\$164,647	\$838,050	\$147,320	\$690,730	4.2	1,143,886

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

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

BLOOMINGDALE AVE SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			22,661	6.3	-5	\$4,018	\$17,230	\$3,960	\$13,270	3.3	22,210
ECM 1	Retrofit Fixtures with LED Lamps	Yes	22,661	6.3	-5	\$4,018	\$17,230	\$3,960	\$13,270	3.3	22,210
Lighting Control Measures			4,150	0.8	-1	\$736	\$5,440	\$1,590	\$3,850	5.2	4,067
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	2,158	0.5	0	\$383	\$3,750	\$460	\$3,290	8.6	2,115
ECM 3	Install High/Low Lighting Controls	Yes	1,991	0.3	0	\$353	\$1,690	\$1,130	\$560	1.6	1,952
Motor Upgrades			677	0.3	0	\$122	\$14,700	\$0	\$14,700	120.3	682
ECM 4	Premium Efficiency Motors	No	677	0.3	0	\$122	\$14,700	\$0	\$14,700	120.3	682
Variable Frequency Drive (VFD) Measures			10,720	3.3	0	\$1,935	\$86,600	\$3,000	\$83,600	43.2	10,795
ECM 5	Install VFDs on Constant Volume (CV) Fans	No	2,120	1.9	0	\$383	\$10,000	\$1,000	\$9,000	23.5	2,135
ECM 6	Install VFDs on Heating Water Pumps	No	8,600	1.4	0	\$1,552	\$76,600	\$2,000	\$74,600	48.1	8,660
Unitary HVAC Measures			747	0.9	0	\$135	\$8,200	\$0	\$8,200	60.8	753
ECM 7	Install High Efficiency Air Conditioning Units	No	747	0.9	0	\$135	\$8,200	\$0	\$8,200	60.8	753
Gas Heating (HVAC/Process) Replacement			0	0.0	73	\$1,016	\$169,200	\$9,000	\$160,200	157.7	8,557
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	73	\$1,016	\$169,200	\$9,000	\$160,200	157.7	8,557
HVAC System Improvements			0	0.0	18	\$253	\$3,380	\$70	\$3,310	13.1	2,135
ECM 9	Implement Demand Control Ventilation (DCV)	No	0	0.0	11	\$146	\$2,900	\$0	\$2,900	19.8	1,233
ECM 10	Install Pipe Insulation	Yes	0	0.0	8	\$107	\$480	\$70	\$410	3.8	902
Domestic Water Heating Upgrade			0	0.0	2	\$31	\$70	\$30	\$40	1.3	261
ECM 11	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$31	\$70	\$30	\$40	1.3	261
Custom Measures***			-7,222	0.0	77	-\$233	\$3,800	\$0	\$3,800	-16.3	1,743
ECM 12	Replace Gas Fired Water Heater with Heat Pump Water Heater***	No	-7,222	0.0	77	-\$233	\$3,800	\$0	\$3,800	-16.3	1,743
TOTALS (COST EFFECTIVE MEASURES)			26,811	7.1	4	\$4,891	\$23,220	\$5,650	\$17,570	3.6	27,439
TOTALS (ALL MEASURES)			31,734	11.6	164	\$8,013	\$308,620	\$17,650	\$290,970	36.3	51,202

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

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

*** - Negative payback explained in section 4.9

BROOKSIDE AVE SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			35,394	10.6	-8	\$5,700	\$33,930	\$7,530	\$26,400	4.6	34,703
ECM 1	Install LED Fixtures	Yes	324	0.0	0	\$53	\$340	\$0	\$340	6.4	326
ECM 2	Retrofit Fixtures with LED Lamps	Yes	35,069	10.6	-8	\$5,646	\$33,590	\$7,530	\$26,060	4.6	34,377
Lighting Control Measures			5,204	1.1	-1	\$838	\$7,640	\$2,410	\$5,230	6.2	5,101
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	2,451	0.6	-1	\$395	\$5,100	\$520	\$4,580	11.6	2,404
ECM 4	Install High/Low Lighting Controls	Yes	2,753	0.5	-1	\$443	\$2,540	\$1,890	\$650	1.5	2,698
Variable Frequency Drive (VFD) Measures			9,906	4.9	0	\$1,626	\$156,500	\$3,400	\$153,100	94.1	9,975
ECM 5	Install VFDs on Constant Volume (CV) Fans	No	3,408	2.0	0	\$560	\$10,300	\$1,000	\$9,300	16.6	3,432
ECM 6	Install VFDs on Heating Water Pumps	No	6,497	2.9	0	\$1,067	\$146,200	\$2,400	\$143,800	134.8	6,543
Gas Heating (HVAC/Process) Replacement			0	0.0	89	\$1,226	\$169,200	\$9,000	\$160,200	130.7	10,381
ECM 7	Install High Efficiency Hot Water Boilers	No	0	0.0	89	\$1,226	\$169,200	\$9,000	\$160,200	130.7	10,381
HVAC System Improvements			0	0.0	164	\$2,271	\$7,510	\$600	\$6,910	3.0	19,235
ECM 8	Implement Demand Control Ventilation (DCV)	No	0	0.0	2	\$32	\$2,900	\$0	\$2,900	90.3	272
ECM 9	Install Pipe Insulation	Yes	0	0.0	162	\$2,239	\$4,610	\$600	\$4,010	1.8	18,963
Domestic Water Heating Upgrade			0	0.0	2	\$31	\$70	\$30	\$40	1.3	261
ECM 10	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$31	\$70	\$30	\$40	1.3	261
Custom Measures***			-10,832	0.0	116	-\$175	\$2,800	\$0	\$2,800	-16.0	2,674
ECM 11	Replace Gas Fired Water Heater with Heat Pump Water Heater***	No	-10,832	0.0	116	-\$175	\$2,800	\$0	\$2,800	-16.0	2,674
TOTALS (COST EFFECTIVE MEASURES)			40,597	11.7	155	\$8,807	\$46,250	\$10,570	\$35,680	4.1	59,029
TOTALS (ALL MEASURES)			39,671	16.6	362	\$11,516	\$377,650	\$22,970	\$354,680	30.8	82,332

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

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

*** - Negative pay back explained in section 4.7

CRANFORD HIGH SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			257,305	63.8	-54	\$34,977	\$142,740	\$27,590	\$115,150	3.3	252,805
ECM 1	Retrofit Fixtures with LED Lamps	Yes	249,885	63.2	-52	\$33,968	\$137,870	\$27,590	\$110,280	3.2	245,515
ECM 2	Install LED Exit Signs	Yes	7,420	0.6	-2	\$1,009	\$4,870	\$0	\$4,870	4.8	7,290
Lighting Control Measures			42,183	9.0	-9	\$5,734	\$49,360	\$14,000	\$35,360	6.2	41,445
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	36,891	7.9	-8	\$5,015	\$35,010	\$4,080	\$30,930	6.2	36,246
ECM 4	Install High/Low Lighting Controls	Yes	5,292	1.1	-1	\$719	\$14,350	\$9,920	\$4,430	6.2	5,200
Variable Frequency Drive (VFD) Measures			178,677	36.0	0	\$24,768	\$117,300	\$14,800	\$102,500	4.1	179,927
ECM 5	Install VFDs on Constant Volume (CV) Fans	Yes	139,693	30.2	0	\$19,364	\$82,500	\$10,900	\$71,600	3.7	140,670
ECM 6	Install VFDs on Heating Water Pumps	Yes	38,985	5.8	0	\$5,404	\$34,800	\$3,900	\$30,900	5.7	39,257
Unitary HVAC Measures			31,783	18.1	3	\$4,448	\$106,300	\$3,700	\$102,600	23.1	32,391
ECM 7	Install High Efficiency Air Conditioning Units	No	4,664	3.3	3	\$689	\$59,400	\$2,500	\$56,900	82.6	5,083
ECM 8	Install High Efficiency Heat Pumps	Yes	27,119	14.7	0	\$3,759	\$46,900	\$1,200	\$45,700	12.2	27,309
Gas Heating (HVAC/Process) Replacement			0	0.0	111	\$1,427	\$296,700	\$0	\$296,700	207.9	13,015
ECM 9	Install High Efficiency Steam Boilers	No	0	0.0	111	\$1,427	\$296,700	\$0	\$296,700	207.9	13,015
HVAC System Improvements			25,313	0.0	162	\$5,584	\$14,770	\$40	\$14,730	2.6	44,415
ECM 10	Implement Demand Control Ventilation (DCV)	Yes	25,313	0.0	149	\$5,426	\$14,500	\$0	\$14,500	2.7	42,973
ECM 11	Install Pipe Insulation	Yes	0	0.0	12	\$158	\$270	\$40	\$230	1.5	1,441
Domestic Water Heating Upgrade			0	0.0	34	\$435	\$24,250	\$1,270	\$22,980	52.8	3,968
ECM 12	Install Tankless Water Heater	No	0	0.0	24	\$306	\$24,100	\$1,200	\$22,900	74.8	2,792
ECM 13	Install Low-Flow DHW Devices	Yes	0	0.0	10	\$129	\$150	\$70	\$80	0.6	1,176
Food Service & Refrigeration Measures			1,186	0.1	0	\$164	\$4,870	\$230	\$4,640	28.2	1,194
ECM 14	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	455	0.1	0	\$63	\$750	\$80	\$670	10.6	458
ECM 15	Refrigeration Controls	No	731	0.0	0	\$101	\$4,120	\$150	\$3,970	39.2	736
TOTALS (COST EFFECTIVE MEASURES)			531,052	123.6	109	\$75,015	\$371,970	\$57,780	\$314,190	4.2	547,535
TOTALS (ALL MEASURES)			536,448	126.9	247	\$77,538	\$756,290	\$61,630	\$694,660	9.0	569,161

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

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

HILLSIDE AVE SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			123,652	31.6	-26	\$17,394	\$68,020	\$13,530	\$54,490	3.1	121,489
ECM 1	Retrofit Fixtures with LED Lamps	Yes	123,652	31.6	-26	\$17,394	\$68,020	\$13,530	\$54,490	3.1	121,489
Lighting Control Measures			34,706	8.9	-7	\$4,882	\$46,640	\$9,400	\$37,240	7.6	34,099
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	30,612	8.0	-6	\$4,306	\$39,600	\$4,420	\$35,180	8.2	30,077
ECM 3	Install High/Low Lighting Controls	Yes	4,094	0.9	-1	\$576	\$7,040	\$4,980	\$2,060	3.6	4,022
Variable Frequency Drive (VFD) Measures			39,207	10.5	0	\$5,624	\$236,700	\$4,500	\$232,200	41.3	39,481
ECM 4	Install VFDs on Constant Volume (CV) Fans	No	10,719	6.2	0	\$1,538	\$36,600	\$1,800	\$34,800	22.6	10,794
ECM 5	Install VFDs on Chilled Water Pumps	No	1,886	0.5	0	\$271	\$8,400	\$100	\$8,300	30.7	1,899
ECM 6	Install VFDs on Heating Water Pumps	No	26,602	3.8	0	\$3,816	\$191,700	\$2,600	\$189,100	49.6	26,788
Unitary HVAC Measures			2,419	1.4	0	\$347	\$12,000	\$0	\$12,000	34.6	2,435
ECM 7	Install High Efficiency Air Conditioning Units	No	2,419	1.4	0	\$347	\$12,000	\$0	\$12,000	34.6	2,435
Gas Heating (HVAC/Process) Replacement			0	0.0	337	\$4,490	\$323,700	\$18,600	\$305,100	68.0	39,470
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	337	\$4,490	\$323,700	\$18,600	\$305,100	68.0	39,470
HVAC System Improvements			0	0.0	39	\$517	\$14,770	\$40	\$14,730	28.5	4,547
ECM 9	Implement Demand Control Ventilation (DCV)	No	0	0.0	24	\$313	\$14,500	\$0	\$14,500	46.3	2,754
ECM 10	Install Pipe Insulation	Yes	0	0.0	15	\$204	\$270	\$40	\$230	1.1	1,792
Domestic Water Heating Upgrade			0	0.0	7	\$89	\$100	\$50	\$50	0.6	784
ECM 11	Install Low-Flow DHW Devices	Yes	0	0.0	7	\$89	\$100	\$50	\$50	0.6	784
Food Service & Refrigeration Measures			2,589	0.2	0	\$371	\$5,240	\$280	\$4,960	13.4	2,607
ECM 12	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	909	0.1	0	\$130	\$1,120	\$120	\$1,000	7.7	916
ECM 13	Refrigeration Controls	No	1,680	0.0	0	\$241	\$4,120	\$160	\$3,960	16.4	1,692
TOTALS (COST EFFECTIVE MEASURES)			159,267	40.7	-11	\$22,700	\$116,150	\$23,140	\$93,010	4.1	159,081
TOTALS (ALL MEASURES)			202,572	52.6	350	\$33,716	\$707,170	\$46,400	\$660,770	19.6	244,913

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

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

LINCOLN SCHOOL (CAP)

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$) *	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			1,397	0.4	0	\$265	\$2,290	\$280	\$2,010	7.6	1,369
ECM1	Retrofit Fixtures with LED Lamps	Yes	1,397	0.4	0	\$265	\$2,290	\$280	\$2,010	7.6	1,369
Lighting Control Measures			11,345	3.1	-3	\$2,149	\$25,980	\$4,840	\$21,140	9.8	11,119
ECM2	Install Occupancy Sensor Lighting Controls	Yes	9,918	2.8	-2	\$1,878	\$22,590	\$2,560	\$20,030	10.7	9,720
ECM3	Install High/Low Lighting Controls	Yes	1,427	0.3	0	\$270	\$3,390	\$2,280	\$1,110	4.1	1,399
Motor Upgrades			918	0.2	0	\$177	\$11,300	\$0	\$11,300	64.0	924
ECM4	Premium Efficiency Motors	No	918	0.2	0	\$177	\$11,300	\$0	\$11,300	64.0	924
Variable Frequency Drive (VFD) Measures			2,121	0.7	0	\$408	\$14,000	\$200	\$13,800	33.8	2,136
ECM5	Install VFDs on Constant Volume (CV) Fans	No	2,121	0.7	0	\$408	\$14,000	\$200	\$13,800	33.8	2,136
Unitary HVAC Measures			7,863	8.0	0	\$1,513	\$43,300	\$300	\$43,000	28.4	7,918
ECM6	Install High Efficiency Air Conditioning Units	No	3,275	4.2	0	\$630	\$36,300	\$0	\$36,300	57.6	3,298
ECM7	Install High Efficiency Heat Pumps	Yes	4,587	3.8	0	\$883	\$7,000	\$300	\$6,700	7.6	4,620
Gas Heating (HVAC/Process) Replacement			0	0.0	158	\$2,108	\$181,400	\$7,000	\$174,400	82.7	18,500
ECM8	Install High Efficiency Steam Boilers	No	0	0.0	158	\$2,108	\$181,400	\$7,000	\$174,400	82.7	18,500
HVAC System Improvements			0	0.0	20	\$271	\$4,745	\$360	\$4,385	16.2	2,377
ECM9	Implement Demand Control Ventilation (DCV)	No	0	0.0	10	\$133	\$2,900	\$0	\$2,900	21.9	1,165
ECM10	Install Pipe Insulation	Yes	0	0.0	10	\$138	\$1,845	\$360	\$1,485	10.7	1,213
Domestic Water Heating Upgrade			0	0.0	2	\$30	\$70	\$30	\$40	1.3	261
ECM11	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$30	\$70	\$30	\$40	1.3	261
Custom Measures***			-7,771	0.0	83	-\$388	\$2,900	\$0	\$2,900	-7.5	1,893
ECM12	Replace Gas Fired Water Heater with Heat Pump Water Heater***	No	-7,771	0.0	83	-\$388	\$2,900	\$0	\$2,900	-7.5	1,893
TOTALS (COST EFFECTIVE MEASURES)			17,329	7.3	10	\$3,464	\$37,185	\$5,810	\$31,375	9.1	18,582
TOTALS (ALL MEASURES)			15,873	12.4	261	\$6,532	\$285,985	\$13,010	\$272,975	41.8	46,498

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

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

*** - Negative payback explained in section 4.9

LIVINGSTON AVE SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			42,940	10.1	-10	\$6,896	\$31,590	\$6,840	\$24,750	3.6	42,089
ECM 1	Retrofit Fixtures with LED Lamps	Yes	42,940	10.1	-10	\$6,896	\$31,590	\$6,840	\$24,750	3.6	42,089
Lighting Control Measures			13,358	3.1	-3	\$2,145	\$13,060	\$2,380	\$10,680	5.0	13,092
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	10,269	2.5	-2	\$1,649	\$11,370	\$1,290	\$10,080	6.1	10,064
ECM 3	Install High/Low Lighting Controls	Yes	3,089	0.7	-1	\$496	\$1,690	\$1,090	\$600	1.2	3,027
Variable Frequency Drive (VFD) Measures			4,584	1.9	0	\$751	\$10,300	\$1,000	\$9,300	12.4	4,616
ECM 4	Install VFDs on Constant Volume (CV) Fans	No	4,584	1.9	0	\$751	\$10,300	\$1,000	\$9,300	12.4	4,616
Unitary HVAC Measures			561	0.7	0	\$92	\$6,100	\$0	\$6,100	66.5	564
ECM 5	Install High Efficiency Air Conditioning Units	No	561	0.7	0	\$92	\$6,100	\$0	\$6,100	66.5	564
Gas Heating (HVAC/Process) Replacement			0	0.0	119	\$1,640	\$181,400	\$7,000	\$174,400	106.3	13,958
ECM 6	Install High Efficiency Steam Boilers	No	0	0.0	119	\$1,640	\$181,400	\$7,000	\$174,400	106.3	13,958
HVAC System Improvements			0	0.0	11	\$154	\$3,120	\$30	\$3,090	20.1	1,311
ECM 7	Implement Demand Control Ventilation (DCV)	No	0	0.0	4	\$49	\$2,900	\$0	\$2,900	58.6	421
ECM 8	Install Pipe Insulation	Yes	0	0.0	8	\$105	\$220	\$30	\$190	1.8	890
Domestic Water Heating Upgrade			0	0.0	2	\$31	\$70	\$30	\$40	1.3	261
ECM 9	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$31	\$70	\$30	\$40	1.3	261
Custom Measures***			-7,856	0.0	84	-\$130	\$3,800	\$0	\$3,800	-29.2	1,924
ECM 10	Replace Gas Fired Water Heater with Heat Pump Water Heater***	No	-7,856	0.0	84	-\$130	\$3,800	\$0	\$3,800	-29.2	1,924
TOTALS (COST EFFECTIVE MEASURES)			56,298	13.3	-3	\$9,177	\$44,940	\$9,280	\$35,660	3.9	56,332
TOTALS (ALL MEASURES)			53,586	15.9	204	\$11,579	\$249,440	\$17,280	\$232,160	20.1	77,815

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

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

*** - Negative payback explained in section 4.8

ORANGE AVE SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			137,483	30.8	-29	\$18,593	\$65,140	\$13,240	\$51,900	2.8	135,078
ECM 1	Retrofit Fixtures with LED Lamps	Yes	137,483	30.8	-29	\$18,593	\$65,140	\$13,240	\$51,900	2.8	135,078
Lighting Control Measures			12,880	2.2	-3	\$1,742	\$16,220	\$5,950	\$10,270	5.9	12,654
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	7,734	1.3	-2	\$1,046	\$9,180	\$1,100	\$8,080	7.7	7,598
ECM 3	Install High/Low Lighting Controls	Yes	5,146	0.9	-1	\$696	\$7,040	\$4,850	\$2,190	3.1	5,056
Variable Frequency Drive (VFD) Measures			52,510	11.6	0	\$7,259	\$72,200	\$4,700	\$67,500	9.3	52,877
ECM 4	Install VFDs on Constant Volume (CV) Fans	Yes	23,625	7.1	0	\$3,266	\$40,900	\$2,000	\$38,900	11.9	23,790
ECM 5	Install VFDs on Chilled Water Pumps	No	2,655	0.6	0	\$367	\$8,100	\$100	\$8,000	21.8	2,673
ECM 6	Install VFDs on Heating Water Pumps	Yes	26,230	3.8	0	\$3,626	\$23,200	\$2,600	\$20,600	5.7	26,414
Unitary HVAC Measures			2,561	1.4	0	\$354	\$12,000	\$0	\$12,000	33.9	2,579
ECM 7	Install High Efficiency Air Conditioning Units	No	2,561	1.4	0	\$354	\$12,000	\$0	\$12,000	33.9	2,579
Gas Heating (HVAC/Process) Replacement			0	0.0	212	\$3,039	\$331,000	\$19,100	\$311,900	102.6	24,787
ECM 8	Install High Efficiency Hot Water Boilers	No	0	0.0	212	\$3,039	\$331,000	\$19,100	\$311,900	102.6	24,787
HVAC System Improvements			0	0.0	64	\$918	\$14,770	\$40	\$14,730	16.0	7,489
ECM 9	Implement Demand Control Ventilation (DCV)	No	0	0.0	40	\$579	\$14,500	\$0	\$14,500	25.1	4,719
ECM 10	Install Pipe Insulation	Yes	0	0.0	24	\$340	\$270	\$40	\$230	0.7	2,770
Domestic Water Heating Upgrade			0	0.0	39	\$562	\$16,100	\$350	\$15,750	28.0	4,580
ECM 11	Install Tankless Water Heater	No	0	0.0	32	\$465	\$16,000	\$300	\$15,700	33.7	3,796
ECM 12	Install Low-Flow DHW Devices	Yes	0	0.0	7	\$96	\$100	\$50	\$50	0.5	784
Food Service & Refrigeration Measures			2,589	0.2	0	\$358	\$5,240	\$280	\$4,960	13.9	2,607
ECM 13	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	909	0.1	0	\$126	\$1,120	\$120	\$1,000	8.0	916
ECM 14	Refrigeration Controls	No	1,680	0.0	0	\$232	\$4,120	\$160	\$3,960	17.1	1,692
TOTALS (COST EFFECTIVE MEASURES)			201,127	44.1	-1	\$27,789	\$146,950	\$24,000	\$122,950	4.4	202,406
TOTALS (ALL MEASURES)			208,022	46.1	283	\$32,824	\$532,670	\$43,660	\$489,010	14.9	242,652

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

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

WALNUT AVE SCHOOL

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			56,693	10.2	-13	\$9,652	\$27,590	\$6,300	\$21,290	2.2	55,563
ECM 1	Retrofit Fixtures with LED Lamps	Yes	56,693	10.2	-13	\$9,652	\$27,590	\$6,300	\$21,290	2.2	55,563
Lighting Control Measures			6,804	1.0	-2	\$1,158	\$8,570	\$3,120	\$5,450	4.7	6,668
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	3,443	0.5	-1	\$586	\$5,190	\$630	\$4,560	7.8	3,375
ECM 3	Install High/Low Lighting Controls	Yes	3,361	0.5	-1	\$572	\$3,380	\$2,490	\$890	1.6	3,294
Variable Frequency Drive (VFD) Measures			18,709	5.7	0	\$3,244	\$93,500	\$4,000	\$89,500	27.6	18,839
ECM 4	Install VFDs on Constant Volume (CV) Fans	Yes	12,119	4.3	0	\$2,102	\$17,000	\$2,000	\$15,000	7.1	12,204
ECM 5	Install VFDs on Heating Water Pumps	No	6,590	1.4	0	\$1,143	\$76,500	\$2,000	\$74,500	65.2	6,636
Unitary HVAC Measures			4,837	4.0	3	\$884	\$36,500	\$1,700	\$34,800	39.3	5,257
ECM 6	Install High Efficiency Air Conditioning Units	No	4,837	4.0	3	\$884	\$36,500	\$1,700	\$34,800	39.3	5,257
Gas Heating (HVAC/Process) Replacement			0	0.0	49	\$679	\$169,200	\$9,000	\$160,200	235.8	5,760
ECM 7	Install High Efficiency Hot Water Boilers	No	0	0.0	49	\$679	\$169,200	\$9,000	\$160,200	235.8	5,760
HVAC System Improvements			0	0.0	9	\$129	\$2,900	\$0	\$2,900	22.6	1,090
ECM 8	Implement Demand Control Ventilation (DCV)	No	0	0.0	9	\$129	\$2,900	\$0	\$2,900	22.6	1,090
Domestic Water Heating Upgrade			0	0.0	2	\$31	\$70	\$30	\$40	1.3	261
ECM 9	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$31	\$70	\$30	\$40	1.3	261
Custom Measures***			-6,006	0.0	64	-\$158	\$3,800	\$0	\$3,800	-24.1	1,446
ECM 10	Replace Gas Fired Water Heater with Heat Pump Water Heater***	No	-6,006	0.0	64	-\$158	\$3,800	\$0	\$3,800	-24.1	1,446
TOTALS (COST EFFECTIVE MEASURES)			75,616	15.4	-12	\$12,943	\$53,230	\$11,450	\$41,780	3.2	74,696
TOTALS (ALL MEASURES)			81,037	20.9	113	\$15,620	\$342,130	\$24,150	\$317,980	20.4	94,884

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

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

*** - Negative payback explained in section 4.8

ENERGY EFFICIENT BEST PRACTICES



- Reduce Air Leakage
- Close Doors and Windows
- Develop a Lighting Maintenance Schedule
- Ensure Lighting Controls Are Operating Properly
- Use Fans to Reduce Cooling Load
- Use Window Treatments/Coverings
- Clean and/or Replace HVAC filters
- Check and Seal Duct Leakage
- Perform Proper Boiler Maintenance
- Perform Proper Water Heater Maintenance
- Plug Load Controls
- Water Conservation

See individual reports for specific EE Best Practices by building

WATER BEST PRACTICES



- Leak Detection and Repair
- Toilets and Urinals
- Faucets and Showerheads
- Commercial Kitchen Equipment
- Laundry Equipment
- Cooling Towers
- Steam Boiler System
- Pools and Spas
- Laboratory and Medical Equipment
- Water Metering and Submetering
- Vehicle Washing
- Single Pass Cooling System
- Landscaping and Irrigation
- On-Site Alternative Water Sources

See individual reports for specific Water Best Practices by building

MEASURES FOR FUTURE CONSIDERATION

- Upgrade/Replace Energy Management System
- Heating System Conversion from Steam to Hot Water
- Upgrade to a Heat Pump System
- Window Replacements
- Replace Built-up Air Handler(s)



EV CHARGING STATION POTENTIAL

NJCleanEnergy.com/EV

Know your EV Charging Stations



LEVEL 1



4-6 miles/hour
Replenish Rate



7-30 hours for full charge

Approximate time to charge a battery*

CHARGE
110/120V

LEVEL 2



10-20 miles/hour
Replenish Rate



2-10 hours for full charge

Approximate time to charge a battery*

CHARGE
208/240V

DIRECT CURRENT (DC) FAST CHARGING*



120-200 miles/hour
Replenish Rate



20-90 minutes for full charge

Approximate time to charge a battery*

CHARGE
480V or 208V

*dependent on the size of the battery

Cranford Public Schools

Potential:

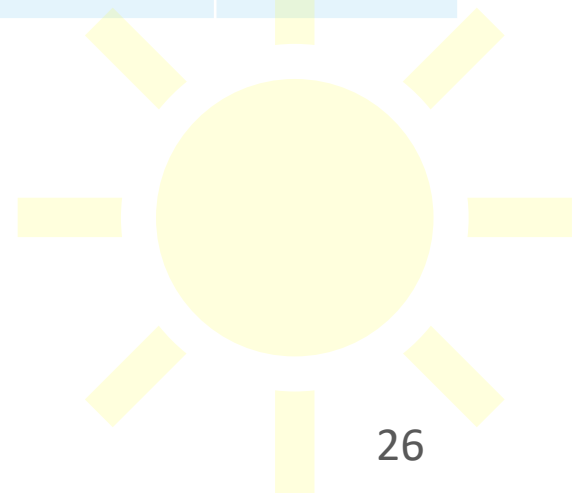
HIGH / Medium



SOLAR ENERGY GENERATION POTENTIAL

NJCleanEnergy.com/renewable-energy

	Bloomingtondale	Brookside	High School	Hillside	Lincoln	Orange	Walnut
<i>Potential:</i>	Medium	Medium	HIGH	HIGH	Medium	HIGH	HIGH
<i>System Potential: (kW)</i>	59	54	327	134	57	165	94
<i>Electric Generation: (kWh per year)</i>	44394	40,632	246,049	159,644	67,908	124,153	111,989
<i>Displaced Cost: (per year)</i>	\$8,010	\$6,670	\$34,110	\$22,900	\$13,070	\$17,160	\$19,420



FINANCING MECHANISM: ESIP

NJCleanEnergy.com/ESIP

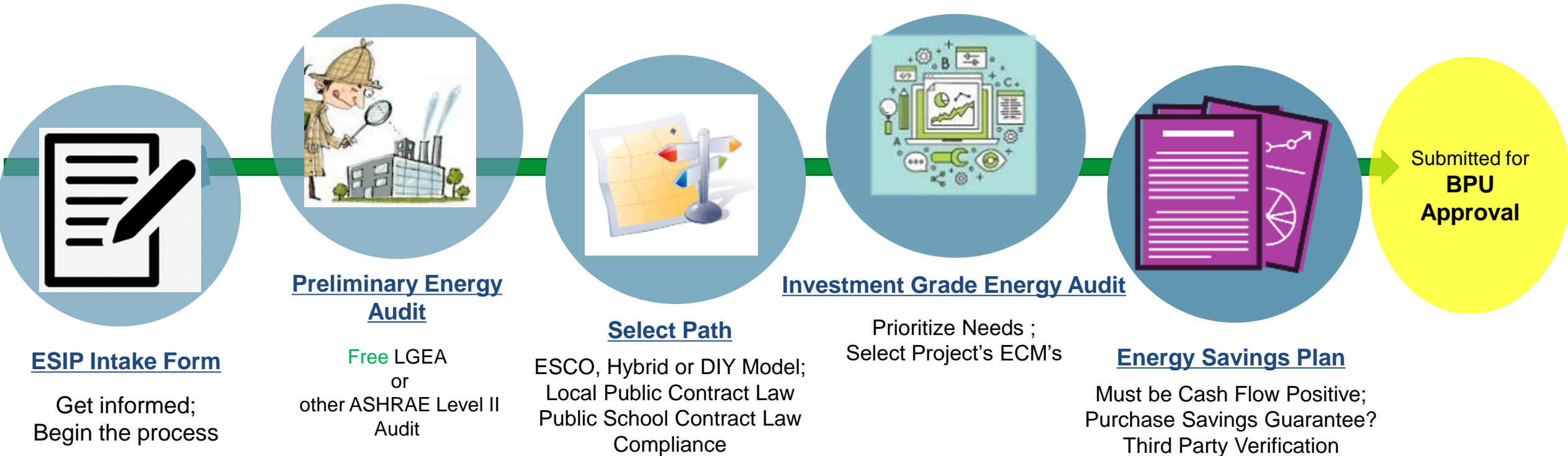
ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- Energy Performance Contracting = NJ ESIP Program
- A creative tool and financing mechanism that allows public entities to make energy efficiency improvements without impacting their budgets
- Administered by the NJBPU
- Project is paid for with the value of its own energy savings
- 2 Options: Lease Purchase Loan or Bond
- 15 or 20 year pay back term
- NJBPU Approved Incentive Programs
 - Utility or NJCEP
- Can be combined with Federal/State Grants
- No upfront capital expenses
- No referendum or impact to tax payers



ENERGY SAVINGS IMPROVEMENT PROGRAM

NJCleanEnergy.com/ESIP



ENERGY SAVINGS IMPROVEMENT PROGRAM

NJCleanEnergy.com/ESIP

FOR MORE INFORMATION

Michelle Rossi

ESIP Coordinator

ESIP@bpu.nj.gov

o: 609.913.6295

c: 609.915.0903

C&I ENERGY EFFICIENCY PROGRAMS

NJCleanEnergy.com

LOCAL
GOVERNMENT
CUSTOMERS

COMMERCIAL &
INSTITUTIONAL
CUSTOMERS

LARGE
ENERGY
CUSTOMERS

EXISTING BUILDINGS

MEASUREMENT & AUDITS

FREE Energy Audits



RETROFITS

Prescriptive &
Custom Rebates

Direct Install

Engineered Solutions

And more from
your local utility!



Incentives up
to \$4 million
for eligible projects



NEW CONSTRUCTION

Prescriptive & Custom
Rebates for New
Construction and
Gut Rehabs

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



DISTRIBUTED ENERGY RESOURCES

Combined Heat & Power
and Fuel Cell Installation
Incentives

Microgrid Development

Battery Storage

Muni EV Fleets



Key:
Programs run by investor-owned utility companies



Programs run by NJCEP



UTILITY RUN ENERGY EFFICIENCY PROGRAMS*

NJCleanEnergy.com/Transition

PRESCRIPTIVE & CUSTOM REBATES:

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

DIRECT INSTALL:

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

ENERGY MANAGEMENT :

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

ENGINEERED SOLUTIONS:

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



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

UTILITY RUN ENERGY EFFICIENCY PROGRAMS

PSE&G

Dave Kirsch – David.Kirsch@pseg.com

Steve Barba – Steven.T.Barba@pseg.com

Elizabethtown Gas

Casey Hennessy - CHennessy@sjindustries.com

Kim Byk - KByk@appliedenergygroup.com

FOR MORE INFORMATION

Sarah Walters – LGEA Project Manager

SWalters@trccompanies.com

(732) 589-7372

Moussa Traore – LGEA Technical Manager

MTraore@trccompanies.com

(732) 902-1797

Bibek Raut – LGEA Energy Auditor

BRaut@netgainsengineering.com

THANK YOU

