

# New Jersey's Clean Energy Program

LGEA Presentation

*Avalon Borough & Elementary School*

May 28, 2020



# INTRODUCTIONS

- *Avalon Borough*
  - Scott Wahl – Business Administrator
  - Jim Craft – Chief Financial Officer
  - *Avalon Elementary School*
  - Stacey Tracy – Superintendent
  - Linda Fiori – Business Administrator
- *NJ Clean Energy Program*
  - Yagna Otia – TRC Auditor
  - Amanda Muench – TRC Account Manager
  - Gary Finger – TRC Outreach Manager

# 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 Avalon Borough & Elementary School



# 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

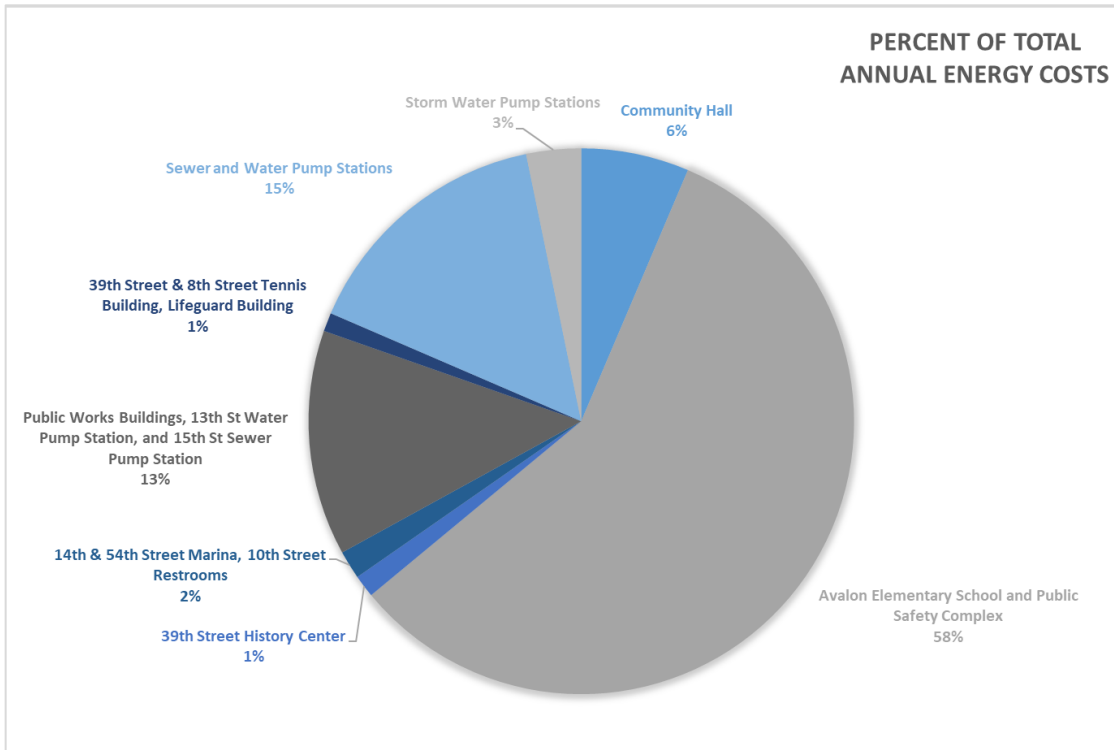
## Sites Visited/Analyzed

- Avalon Elementary School + sites on shared central plant
- Public Works Building
- 13 Street and 15<sup>th</sup> Street Pump Stations
- Community Hall
- 39<sup>th</sup> and 8<sup>th</sup> Street Tennis Building
- Lifeguard Building
- 14<sup>th</sup> and 54<sup>th</sup> Street Marina
- 10<sup>th</sup> and Dune Dr. Public Restroom
- 39<sup>th</sup> Street History Center
- Pump, Sewer, and Storm Water Stations

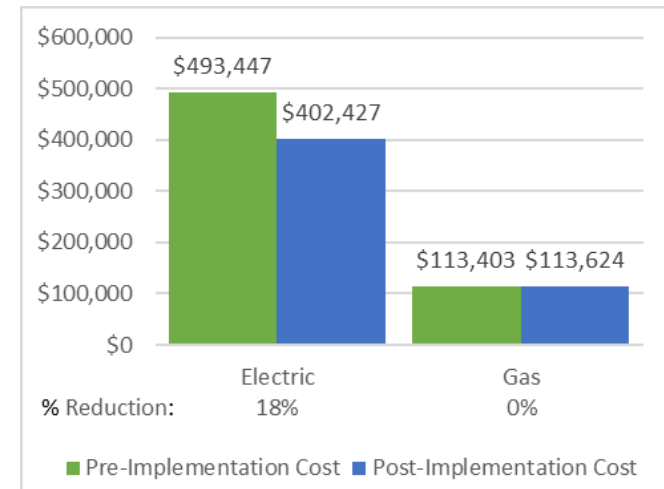


# UTILITY BREAKOUT


## Percent of Total Annual Energy Costs



## Pre & Post Implementation Cost



# BENCHMARKING



**ENERGY STAR® Statement of Energy Performance**

LEARN MORE AT [energystar.gov](http://energystar.gov)

**N/A**

**Avalon Community Hall**

Primary Property Type: Other - Recreation  
Gross Floor Area (ft²): 11,968  
Built: 1965

For Year Ending: January 31, 2018  
Date Generated: January 05, 2020

ENERGY STAR®  
Score<sup>1</sup>

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		
<b>Property Address</b> Avalon Community Hall 3001 Avalon Avenue Avalon, New Jersey 08202	<b>Property Owner</b> Borough of Avalon 235 32nd Street Avalon, NJ 08202 (609) 967-8200	<b>Primary Contact</b> Scott Wahl 3100 Dune Drive Avalon, NJ 08202 (609) 967-5917 swahl@avalonboro.org
Property ID: 7385153		
Energy Consumption and Energy Use Intensity (EUI)		
<b>Site EUI</b> 105.6 kBtu/ft²	<b>Annual Energy Fuel</b> Electric (kBtu) 770,659 (81%) Natural Gas (kBtu) 492,573 (39%)	<b>National Median Comparison</b> National Median Site EUI (kBtu/ft²) 52.9 National Median Source EUI (kBtu/ft²) 112 % Diff from National Median Source EUI 100%
<b>Source EUI</b> 223.5 kBtu/ft²	<b>Annual Emissions</b> Greenhouse Gas Emissions (Metric Tons CO2e/year) 104	

**Site EUI**  
105.6 kBtu/ft²

**Source EUI**  
223.5 kBtu/ft²

**National Median Comparison**

National Median Site EUI (kBtu/ft²)	52.9
National Median Source EUI (kBtu/ft²)	112
% Diff from National Median Source EUI	100%

**Annual Emissions**

Greenhouse Gas Emissions (Metric Tons CO2e/year)	104
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**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

\_\_\_\_\_

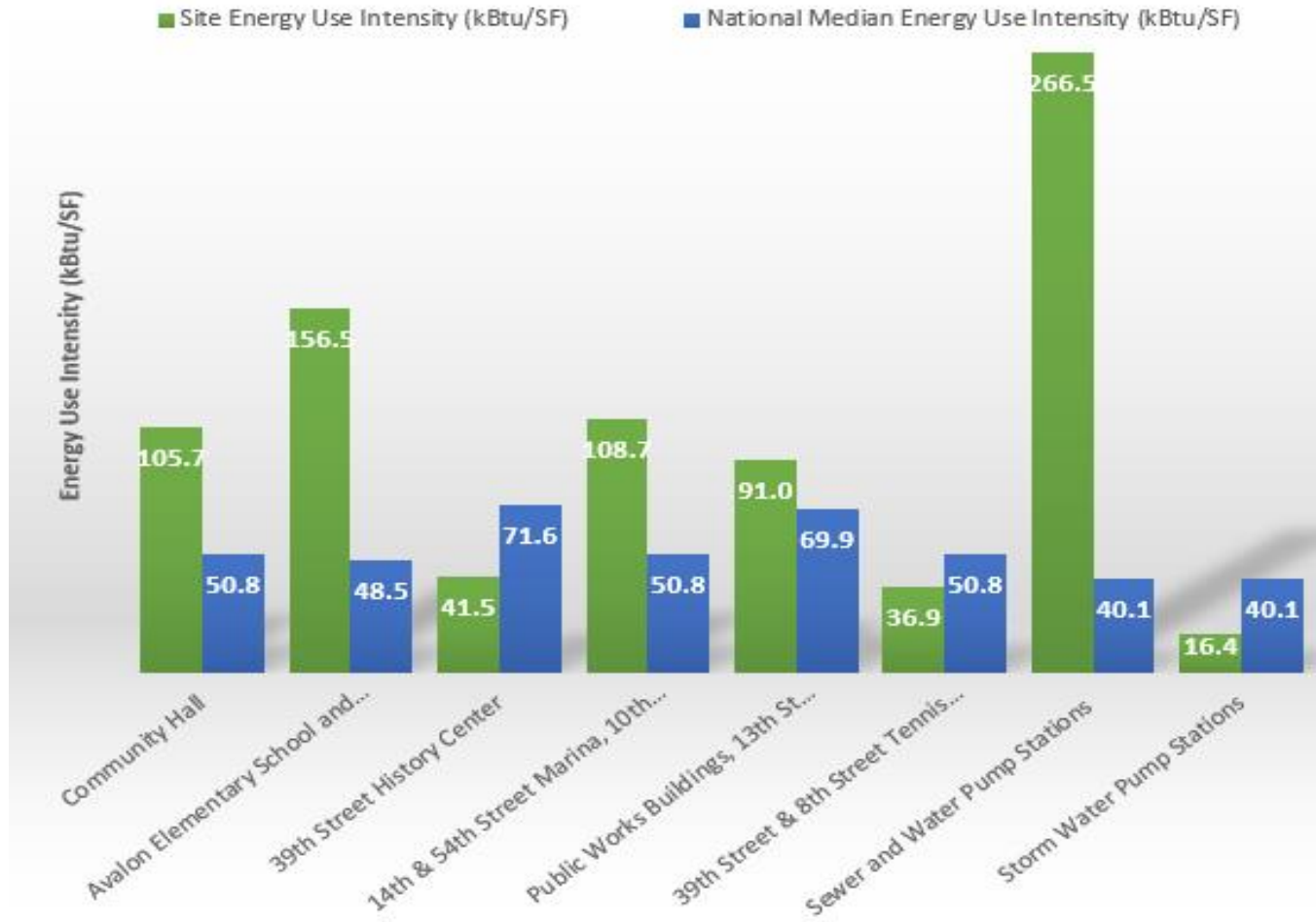
\_\_\_\_\_

\_\_\_\_\_

Professional Engineer or Registered Architect Stamp (if applicable)

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.

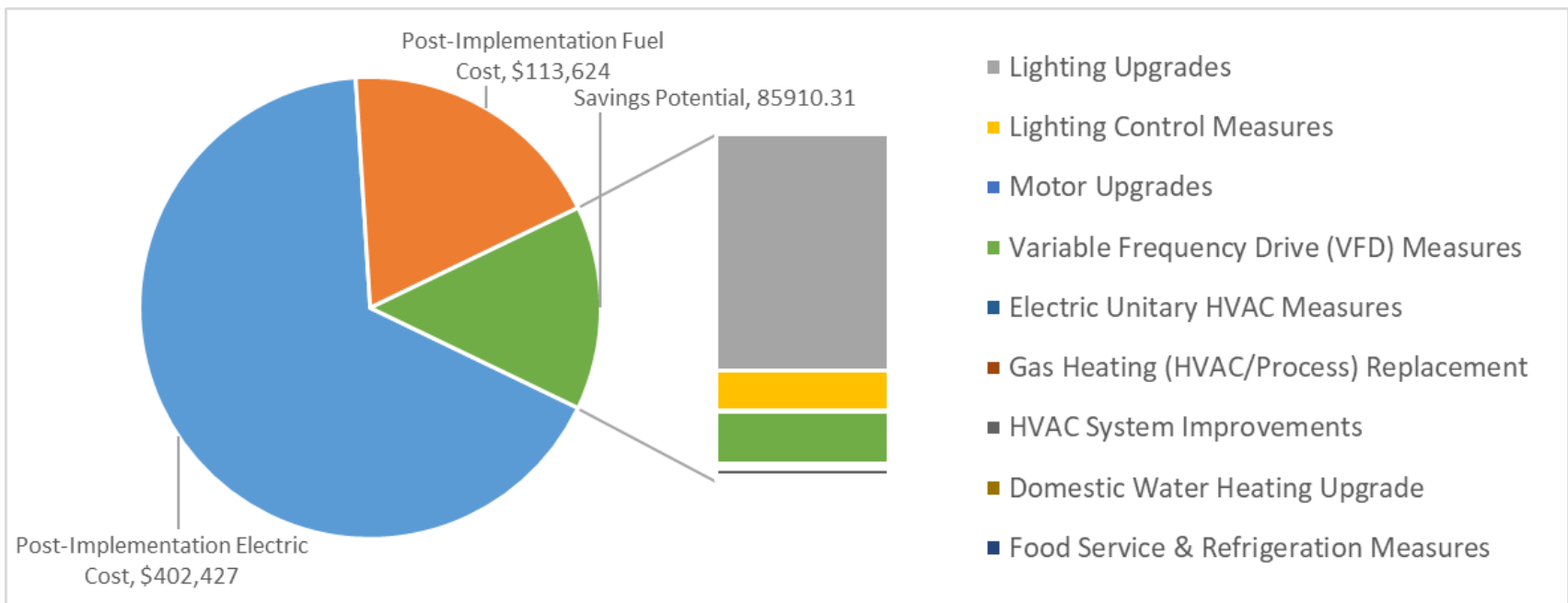
# BENCHMARKING





# ALL OPPORTUNITIES

## Savings Potential



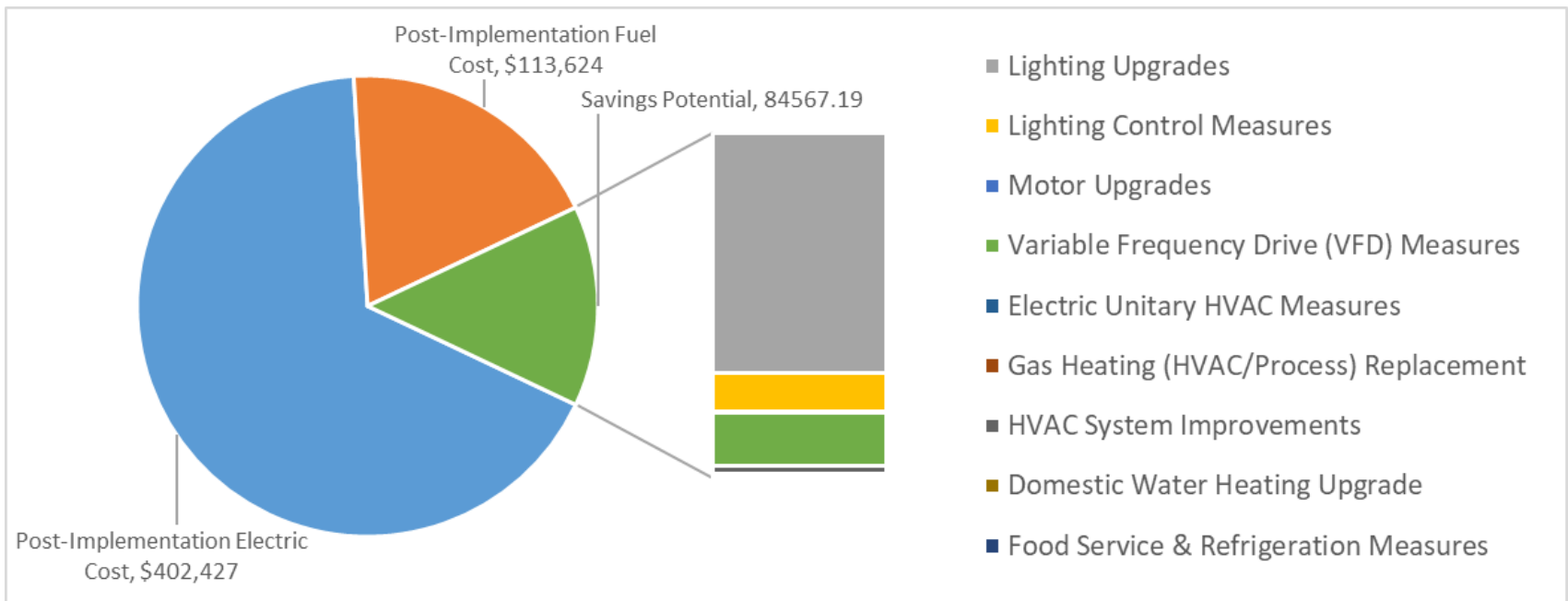
# ALL OPPORTUNITIES

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>		<b>439,636</b>	<b>61.7</b>	<b>-75.1</b>	<b>\$58,551</b>	<b>\$211,159</b>	<b>\$63,448</b>	<b>\$147,711</b>	<b>2.5</b>	<b>433,920</b>
ECM 1	Install LED Fixtures	138,700	10.1	-14.1	\$18,792	\$123,853	\$26,940	\$96,913	5.2	138,013
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	20,470	7.1	-4.3	\$3,282	\$10,508	\$2,930	\$7,578	2.3	20,113
ECM 3	Retrofit Fixtures with LED Lamps	280,467	44.5	-56.7	\$36,476	\$76,797	\$33,578	\$43,219	1.2	275,794
<b>Lighting Control Measures</b>		<b>78,450</b>	<b>12.6</b>	<b>-16.4</b>	<b>\$9,940</b>	<b>\$72,457</b>	<b>\$19,580</b>	<b>\$52,877</b>	<b>5.3</b>	<b>77,081</b>
ECM 4	Install Occupancy Sensor Lighting Controls	70,152	11.6	-14.6	\$8,913	\$66,382	\$14,200	\$52,182	5.9	68,930
ECM 5	Install High/Low Lighting Controls	8,298	1.0	-1.7	\$1,027	\$6,075	\$5,380	\$695	0.7	8,152
<b>Motor Upgrades</b>		<b>1,971</b>	<b>0.2</b>	<b>0.0</b>	<b>\$245</b>	<b>\$2,308</b>	<b>\$0</b>	<b>\$2,308</b>	<b>9.4</b>	<b>1,985</b>
ECM 6	Premium Efficiency Motors	1,971	0.2	0.0	\$245	\$2,308	\$0	\$2,308	9.4	1,985
<b>Variable Frequency Drive (VFD) Measures</b>		<b>98,479</b>	<b>20.3</b>	<b>14.9</b>	<b>\$12,969</b>	<b>\$88,686</b>	<b>\$20,050</b>	<b>\$68,636</b>	<b>5.3</b>	<b>100,918</b>
ECM 7	Install VFD on Variable Air Volume (VAV) Fans	78,350	14.7	0.0	\$9,725	\$62,160	\$11,700	\$50,460	5.2	78,898
ECM 8	Install VFDs on Constant Volume (CV) Fans	2,739	0.9	0.0	\$419	\$3,812	\$400	\$3,412	8.2	2,758
ECM 9	Install Air Compressors with VFDs	14,549	4.7	0.0	\$2,223	\$19,431	\$7,800	\$11,631	5.2	14,650
ECM 10	Install VFDs on Kitchen Hood Fan Motors	2,841	0.0	14.9	\$602	\$3,283	\$150	\$3,133	5.2	4,612
<b>Electric Unitary HVAC Measures</b>		<b>3,030</b>	<b>2.6</b>	<b>0.0</b>	<b>\$710</b>	<b>\$19,197</b>	<b>\$2,361</b>	<b>\$16,836</b>	<b>23.7</b>	<b>3,051</b>
ECM 11	Install High Efficiency Air Conditioning Units	3,030	2.6	0.0	\$710	\$19,197	\$2,361	\$16,836	23.7	3,051
<b>Electric Chiller Replacement</b>		<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>0.0</b>	<b>0</b>
<b>Gas Heating (HVAC/Process) Replacement</b>		<b>0</b>	<b>0.0</b>	<b>29.1</b>	<b>\$407</b>	<b>\$16,881</b>	<b>\$2,144</b>	<b>\$14,737</b>	<b>36.2</b>	<b>3,405</b>
ECM 12	Install High Efficiency Furnaces	0	0.0	15.4	\$236	\$2,855	\$2,144	\$711	3.0	1,805
ECM 13	Install High Efficiency Unit Heaters	0	0.0	13.7	\$172	\$14,026	\$0	\$14,026	81.7	1,600
<b>HVAC System Improvements</b>		<b>7,025</b>	<b>0.0</b>	<b>6.6</b>	<b>\$1,794</b>	<b>\$990</b>	<b>\$0</b>	<b>\$990</b>	<b>0.6</b>	<b>7,851</b>
ECM 14	Install Programmable Thermostats	7,025	0.0	6.6	\$1,794	\$990	\$0	\$990	0.6	7,851
<b>Domestic Water Heating Upgrade</b>		<b>3,148</b>	<b>0.0</b>	<b>22.9</b>	<b>\$747</b>	<b>\$4,439</b>	<b>\$753</b>	<b>\$3,686</b>	<b>4.9</b>	<b>5,852</b>
ECM 15	Install High Efficiency Gas-Fired Water Heater	0	0.0	3.4	\$45	\$3,959	\$273	\$3,686	81.2	404
ECM 16	Install Low-Flow DHW Devices	3,148	0.0	19.5	\$701	\$480	\$480	\$0	0.0	5,448
<b>Food Service &amp; Refrigeration Measures</b>		<b>3,828</b>	<b>0.4</b>	<b>0.0</b>	<b>\$549</b>	<b>\$993</b>	<b>\$280</b>	<b>\$713</b>	<b>1.3</b>	<b>3,855</b>
ECM 17	Refrigerator/Freezer Case Electrically Commutated Motors	262	0.0	0.0	\$50	\$303	\$80	\$223	4.5	264
ECM 18	Vending Machine Control	3,566	0.4	0.0	\$499	\$690	\$200	\$490	1.0	3,591
<b>TOTALS</b>		<b>635,567</b>	<b>97.8</b>	<b>-17.9</b>	<b>\$85,910</b>	<b>\$417,108</b>	<b>\$108,616</b>	<b>\$308,492</b>	<b>3.6</b>	<b>637,919</b>



# 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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>		<b>439,513</b>	<b>61.1</b>	<b>-75.1</b>	<b>\$58,529</b>	<b>\$210,052</b>	<b>\$63,088</b>	<b>\$146,964</b>	<b>2.5</b>	<b>433,796</b>
ECM 1	Install LED Fixtures	138,700	10.1	-14.1	\$18,792	\$123,853	\$26,940	\$96,913	5.2	138,013
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	20,347	6.5	-4.3	\$3,261	\$9,402	\$2,570	\$6,832	2.1	19,989
ECM 3	Retrofit Fixtures with LED Lamps	280,467	44.5	-56.7	\$36,476	\$76,797	\$33,578	\$43,219	1.2	275,794
<b>Lighting Control Measures</b>		<b>76,830</b>	<b>11.8</b>	<b>-16.0</b>	<b>\$9,541</b>	<b>\$64,440</b>	<b>\$18,210</b>	<b>\$46,230</b>	<b>4.8</b>	<b>75,490</b>
ECM 4	Install Occupancy Sensor Lighting Controls	68,559	10.9	-14.3	\$8,521	\$58,590	\$12,830	\$45,760	5.4	67,365
ECM 5	Install High/Low Lighting Controls	8,271	1.0	-1.7	\$1,020	\$5,850	\$5,380	\$470	0.5	8,126
<b>Motor Upgrades</b>		<b>1,971</b>	<b>0.2</b>	<b>0.0</b>	<b>\$245</b>	<b>\$2,308</b>	<b>\$0</b>	<b>\$2,308</b>	<b>9.4</b>	<b>1,985</b>
ECM 6	Premium Efficiency Motors	1,971	0.2	0.0	\$245	\$2,308	\$0	\$2,308	9.4	1,985
<b>Variable Frequency Drive (VFD) Measures</b>		<b>98,479</b>	<b>20.3</b>	<b>14.9</b>	<b>\$12,969</b>	<b>\$88,686</b>	<b>\$20,050</b>	<b>\$68,636</b>	<b>5.3</b>	<b>100,918</b>
ECM 7	Install VFD on Variable Air Volume (VAV) Fans	78,350	14.7	0.0	\$9,725	\$62,160	\$11,700	\$50,460	5.2	78,898
ECM 8	Install VFDs on Constant Volume (CV) Fans	2,739	0.9	0.0	\$419	\$3,812	\$400	\$3,412	8.2	2,758
ECM 9	Install Air Compressors with VFDs	14,549	4.7	0.0	\$2,223	\$19,431	\$7,800	\$11,631	5.2	14,650
ECM 10	Install VFDs on Kitchen Hood Fan Motors	2,841	0.0	14.9	\$602	\$3,283	\$150	\$3,133	5.2	4,612
<b>Gas Heating (HVAC/Process) Replacement</b>		<b>0</b>	<b>0.0</b>	<b>15.4</b>	<b>\$236</b>	<b>\$2,855</b>	<b>\$2,144</b>	<b>\$711</b>	<b>3.0</b>	<b>1,805</b>
ECM 12	Install High Efficiency Furnaces	0	0.0	15.4	\$236	\$2,855	\$2,144	\$711	3.0	1,805
ECM 13	Install High Efficiency Unit Heaters	0	0.0	0.0	\$0	\$0	\$0	\$0	0.0	0
<b>HVAC System Improvements</b>		<b>7,025</b>	<b>0.0</b>	<b>6.6</b>	<b>\$1,794</b>	<b>\$990</b>	<b>\$0</b>	<b>\$990</b>	<b>0.6</b>	<b>7,851</b>
ECM 14	Install Programmable Thermostats	7,025	0.0	6.6	\$1,794	\$990	\$0	\$990	0.6	7,851
<b>Domestic Water Heating Upgrade</b>		<b>3,148</b>	<b>0.0</b>	<b>22.9</b>	<b>\$747</b>	<b>\$4,439</b>	<b>\$753</b>	<b>\$3,686</b>	<b>4.9</b>	<b>5,852</b>
ECM 16	Install Low-Flow DHW Devices	3,148	0.0	19.5	\$701	\$480	\$480	\$0	0.0	5,448
<b>Food Service &amp; Refrigeration Measures</b>		<b>3,828</b>	<b>0.4</b>	<b>0.0</b>	<b>\$549</b>	<b>\$993</b>	<b>\$280</b>	<b>\$713</b>	<b>1.3</b>	<b>3,855</b>
ECM 17	Refrigerator/Freezer Case Electrically Commutated Motors	262	0.0	0.0	\$50	\$303	\$80	\$223	4.5	264
ECM 18	Vending Machine Control	3,566	0.4	0.0	\$499	\$690	\$200	\$490	1.0	3,591
<b>TOTALS</b>		<b>633,825</b>	<b>96.4</b>	<b>-31.2</b>	<b>\$85,317</b>	<b>\$393,959</b>	<b>\$106,886</b>	<b>\$287,073</b>	<b>3.4</b>	<b>634,604</b>



# AVALON 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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>333,585</b>	<b>41.9</b>	<b>-62</b>	<b>\$40,658</b>	<b>\$126,954</b>	<b>\$40,848</b>	<b>\$86,106</b>	<b>2.1</b>	<b>328,675</b>
ECM 1	Install LED Fixtures	Yes	98,861	10.1	-14	\$12,100	\$71,581	\$16,340	\$55,241	4.6	97,896
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	13,437	2.0	-3	\$1,634	\$3,767	\$902	\$2,865	1.8	13,202
ECM 3	Retrofit Fixtures with LED Lamps	Yes	221,286	29.8	-45	\$26,924	\$51,605	\$23,606	\$27,999	1.0	217,577
<b>Lighting Control Measures</b>			<b>69,069</b>	<b>9.9</b>	<b>-14</b>	<b>\$8,399</b>	<b>\$53,472</b>	<b>\$15,285</b>	<b>\$38,187</b>	<b>4.5</b>	<b>67,861</b>
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	61,160	9.0	-13	\$7,437	\$48,522	\$10,790	\$37,732	5.1	60,091
ECM 5	Install High/Low Lighting Controls	Yes	7,908	0.9	-2	\$962	\$4,950	\$4,495	\$455	0.5	7,770
<b>Motor Upgrades</b>			<b>1,971</b>	<b>0.2</b>	<b>0</b>	<b>\$245</b>	<b>\$2,308</b>	<b>\$0</b>	<b>\$2,308</b>	<b>9.4</b>	<b>1,985</b>
ECM 6	Premium Efficiency Motors	Yes	1,971	0.2	0	\$245	\$2,308	\$0	\$2,308	9.4	1,985
<b>Variable Frequency Drive (VFD) Measures</b>			<b>78,350</b>	<b>14.7</b>	<b>0</b>	<b>\$9,725</b>	<b>\$62,160</b>	<b>\$11,700</b>	<b>\$50,460</b>	<b>5.2</b>	<b>78,898</b>
ECM 7	Install VFD on Variable Air Volume (VAV) Fans	Yes	78,350	14.7	0	\$9,725	\$62,160	\$11,700	\$50,460	5.2	78,898
<b>Domestic Water Heating Upgrade</b>			<b>2,453</b>	<b>0.0</b>	<b>12</b>	<b>\$453</b>	<b>\$315</b>	<b>\$315</b>	<b>\$0</b>	<b>0.0</b>	<b>3,908</b>
ECM 8	Install Low-Flow DHW Devices	Yes	2,453	0.0	12	\$453	\$315	\$315	\$0	0.0	3,908
<b>Food Service &amp; Refrigeration Measures</b>			<b>1,612</b>	<b>0.2</b>	<b>0</b>	<b>\$200</b>	<b>\$230</b>	<b>\$100</b>	<b>\$130</b>	<b>0.6</b>	<b>1,623</b>
ECM 9	Vending Machine Control	Yes	1,612	0.2	0	\$200	\$230	\$100	\$130	0.6	1,623
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>487,039</b>	<b>66.8</b>	<b>-64</b>	<b>\$59,679</b>	<b>\$245,439</b>	<b>\$68,248</b>	<b>\$177,190</b>	<b>3.0</b>	<b>482,950</b>
<b>TOTALS (ALL MEASURES)</b>			<b>487,039</b>	<b>66.8</b>	<b>-64</b>	<b>\$59,679</b>	<b>\$245,439</b>	<b>\$68,248</b>	<b>\$177,190</b>	<b>3.0</b>	<b>482,950</b>

# PUBLIC WORKS BUILDING

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>50,708</b>	<b>7.0</b>	<b>-6</b>	<b>\$7,670</b>	<b>\$44,377</b>	<b>\$12,394</b>	<b>\$31,983</b>	<b>4.2</b>	<b>50,321</b>
ECM 1	Install LED Fixtures	Yes	21,668	0.0	0	\$3,312	\$28,661	\$5,420	\$23,241	7.0	21,820
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	368	0.2	0	\$55	\$275	\$80	\$195	3.5	361
ECM 3	Retrofit Fixtures with LED Lamps	Yes	28,671	6.9	-6	\$4,303	\$15,441	\$6,894	\$8,547	2.0	28,141
<b>Lighting Control Measures</b>			<b>4,012</b>	<b>1.0</b>	<b>-1</b>	<b>\$603</b>	<b>\$7,162</b>	<b>\$1,650</b>	<b>\$5,512</b>	<b>9.1</b>	<b>3,948</b>
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	3,694	0.9	-1	\$555	\$6,712	\$1,200	\$5,512	9.9	3,635
ECM 5	Install High/Low Lighting Controls	Yes	318	0.1	0	\$48	\$450	\$450	\$0	0.0	312
<b>Variable Frequency Drive (VFD) Measures</b>			<b>17,287</b>	<b>5.6</b>	<b>0</b>	<b>\$2,642</b>	<b>\$23,243</b>	<b>\$8,200</b>	<b>\$15,043</b>	<b>5.7</b>	<b>17,408</b>
ECM 6	Install VFDs on Constant Volume (CV) Fans	Yes	2,739	0.9	0	\$419	\$3,812	\$400	\$3,412	8.2	2,758
ECM 7	Install Air Compressors with VFDs	Yes	14,549	4.7	0	\$2,223	\$19,431	\$7,800	\$11,631	5.2	14,650
<b>Gas Heating (HVAC/Process) Replacement</b>			<b>0</b>	<b>0.0</b>	<b>14</b>	<b>\$172</b>	<b>\$14,026</b>	<b>\$0</b>	<b>\$14,026</b>	<b>81.7</b>	<b>1,600</b>
ECM 8	Install High Efficiency Unit Heaters	No	0	0.0	14	\$172	\$14,026	\$0	\$14,026	81.7	1,600
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>5</b>	<b>\$59</b>	<b>\$2,059</b>	<b>\$169</b>	<b>\$1,890</b>	<b>31.8</b>	<b>554</b>
ECM 9	Install High Efficiency Gas-Fired Water Heater	No	0	0.0	3	\$41	\$2,030	\$140	\$1,890	46.6	377
ECM 10	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$19	\$29	\$29	\$0	0.0	176
<b>Food Service &amp; Refrigeration Measures</b>			<b>1,954</b>	<b>0.2</b>	<b>0</b>	<b>\$299</b>	<b>\$460</b>	<b>\$100</b>	<b>\$360</b>	<b>1.2</b>	<b>1,968</b>
ECM 11	Vending Machine Control	Yes	1,954	0.2	0	\$299	\$460	\$100	\$360	1.2	1,968
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>73,961</b>	<b>13.8</b>	<b>-6</b>	<b>\$11,233</b>	<b>\$75,271</b>	<b>\$22,373</b>	<b>\$52,899</b>	<b>4.7</b>	<b>73,822</b>
<b>TOTALS (ALL MEASURES)</b>			<b>73,961</b>	<b>13.8</b>	<b>11</b>	<b>\$11,445</b>	<b>\$91,327</b>	<b>\$22,513</b>	<b>\$68,815</b>	<b>6.0</b>	<b>75,799</b>

# COMMUNITY CENTER

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			22,348	4.3	-4	\$3,155	\$9,596	\$2,740	\$6,856	2.2	22,009
ECM 1	Install LED Fixtures	Yes	2,505	0.0	0	\$360	\$3,864	\$800	\$3,064	8.5	2,523
ECM 2	Retrofit Fixtures with LED Lamps	Yes	19,843	4.3	-4	\$2,795	\$5,733	\$1,940	\$3,793	1.4	19,487
<b>Lighting Control Measures</b>			3,562	0.7	-1	\$502	\$2,970	\$770	\$2,200	4.4	3,498
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	3,562	0.7	-1	\$502	\$2,970	\$770	\$2,200	4.4	3,498
<b>Variable Frequency Drive (VFD) Measures</b>			2,841	0.0	15	\$602	\$3,283	\$150	\$3,133	5.2	4,612
ECM 4	Install VFDs on Kitchen Hood Fan Motors	Yes	2,841	0.0	15	\$602	\$3,283	\$150	\$3,133	5.2	4,612
<b>Domestic Water Heating Upgrade</b>			417	0.0	1	\$78	\$57	\$57	\$0	0.0	583
ECM 5	Install Low-Flow DHW Devices	Yes	417	0.0	1	\$78	\$57	\$57	\$0	0.0	583
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			29,169	5.0	11	\$4,337	\$15,907	\$3,717	\$12,189	2.8	30,703
<b>TOTALS (ALL MEASURES)</b>			29,169	5.0	11	\$4,337	\$15,907	\$3,717	\$12,189	2.8	30,703

# 39<sup>TH</sup> STREET TENNIS BUILDING

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>8,466</b>	<b>3.0</b>	<b>-1</b>	<b>\$2,141</b>	<b>\$8,325</b>	<b>\$2,148</b>	<b>\$6,177</b>	<b>2.9</b>	<b>8,385</b>
ECM 1	Install LED Fixtures	Yes	827	0.0	0	\$211	\$3,864	\$800	\$3,064	14.5	833
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	4,873	2.5	-1	\$1,227	\$3,507	\$988	\$2,519	2.1	4,788
ECM 3	Retrofit Fixtures with LED Lamps	Yes	2,765	0.5	0	\$703	\$954	\$360	\$594	0.8	2,764
<b>Lighting Control Measures</b>			<b>1,002</b>	<b>0.5</b>	<b>0</b>	<b>\$252</b>	<b>\$4,275</b>	<b>\$840</b>	<b>\$3,435</b>	<b>13.6</b>	<b>984</b>
ECM 4	Install Occupancy Sensor Lighting Controls	No	975	0.5	0	\$246	\$4,050	\$840	\$3,210	13.1	958
ECM 5	Install High/Low Lighting Controls	No	27	0.0	0	\$7	\$225	\$0	\$225	33.7	26
<b>Domestic Water Heating Upgrade</b>			<b>278</b>	<b>0.0</b>	<b>1</b>	<b>\$85</b>	<b>\$29</b>	<b>\$29</b>	<b>\$0</b>	<b>0.0</b>	<b>391</b>
ECM 6	Install Low-Flow DHW Devices	Yes	278	0.0	1	\$85	\$29	\$29	\$0	0.0	391
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>8,744</b>	<b>3.0</b>	<b>0</b>	<b>\$2,226</b>	<b>\$8,354</b>	<b>\$2,177</b>	<b>\$6,177</b>	<b>2.8</b>	<b>8,776</b>
<b>TOTALS (ALL MEASURES)</b>			<b>9,746</b>	<b>3.6</b>	<b>0</b>	<b>\$2,478</b>	<b>\$12,629</b>	<b>\$3,017</b>	<b>\$9,612</b>	<b>3.9</b>	<b>9,760</b>



# 14<sup>TH</sup> STREET MARINA

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>16,188</b>	<b>1.6</b>	<b>0</b>	<b>\$3,067</b>	<b>\$17,300</b>	<b>\$3,794</b>	<b>\$13,506</b>	<b>4.4</b>	<b>16,264</b>
ECM 1	Install LED Fixtures	Yes	14,189	0.0	0	\$2,694	\$15,383	\$3,180	\$12,203	4.5	14,289
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,001	1.3	0	\$185	\$1,203	\$400	\$803	4.3	982
ECM 3	Retrofit Fixtures with LED Lamps	Yes	998	0.3	0	\$187	\$714	\$214	\$500	2.7	993
<b>Lighting Control Measures</b>			<b>143</b>	<b>0.2</b>	<b>0</b>	<b>\$26</b>	<b>\$386</b>	<b>\$70</b>	<b>\$316</b>	<b>12.0</b>	<b>140</b>
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	143	0.2	0	\$26	\$386	\$70	\$316	12.0	140
<b>Electric Unitary HVAC Measures</b>			<b>401</b>	<b>0.8</b>	<b>0</b>	<b>\$76</b>	<b>\$3,486</b>	<b>\$429</b>	<b>\$3,057</b>	<b>40.1</b>	<b>404</b>
ECM 5	Install High Efficiency Air Conditioning Units	No	401	0.8	0	\$76	\$3,486	\$429	\$3,057	40.1	404
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>2</b>	<b>\$52</b>	<b>\$36</b>	<b>\$36</b>	<b>\$0</b>	<b>0.0</b>	<b>278</b>
ECM 6	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$52	\$36	\$36	\$0	0.0	278
<b>Food Service &amp; Refrigeration Measures</b>			<b>262</b>	<b>0.0</b>	<b>0</b>	<b>\$50</b>	<b>\$303</b>	<b>\$80</b>	<b>\$223</b>	<b>4.5</b>	<b>264</b>
ECM 7	Refrigerator/Freezer Case Electrically Commutated Motors	Yes	262	0.0	0	\$50	\$303	\$80	\$223	4.5	264
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>16,593</b>	<b>1.8</b>	<b>2</b>	<b>\$3,195</b>	<b>\$18,025</b>	<b>\$3,980</b>	<b>\$14,045</b>	<b>4.4</b>	<b>16,946</b>
<b>TOTALS (ALL MEASURES)</b>			<b>16,995</b>	<b>2.6</b>	<b>2</b>	<b>\$3,271</b>	<b>\$21,511</b>	<b>\$4,409</b>	<b>\$17,103</b>	<b>5.2</b>	<b>17,350</b>

# 39<sup>TH</sup> STREET HISTORY CENTER

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			6,219	2.6	-1	\$1,481	\$1,965	\$406	\$1,559	1.1	6,128
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	668	0.5	0	\$159	\$649	\$200	\$449	2.8	656
ECM 2	Retrofit Fixtures with LED Lamps	Yes	5,551	2.1	-1	\$1,322	\$1,315	\$206	\$1,109	0.8	5,472
<b>Lighting Control Measures</b>			662	0.3	0	\$157	\$4,192	\$965	\$3,227	20.5	651
ECM 3	Install Occupancy Sensor Lighting Controls	No	617	0.3	0	\$147	\$3,742	\$530	\$3,212	21.9	607
ECM 4	Install High/Low Lighting Controls	Yes	44	0.0	0	\$11	\$450	\$435	\$15	1.4	44
<b>Electric Unitary HVAC Measures</b>			2,629	1.8	0	\$633	\$15,710	\$1,932	\$13,778	21.8	2,647
ECM 5	Install High Efficiency Air Conditioning Units	No	2,629	1.8	0	\$633	\$15,710	\$1,932	\$13,778	21.8	2,647
<b>Gas Heating (HVAC/Process) Replacement</b>			0	0.0	15	\$236	\$2,855	\$2,144	\$711	3.0	1,805
ECM 6	Install High Efficiency Furnaces	Yes	0	0.0	15	\$236	\$2,855	\$2,144	\$711	3.0	1,805
<b>HVAC System Improvements</b>			7,025	0.0	7	\$1,794	\$990	\$0	\$990	0.6	7,851
ECM 7	Install Programmable Thermostats	Yes	7,025	0.0	7	\$1,794	\$990	\$0	\$990	0.6	7,851
<b>Domestic Water Heating Upgrade</b>			0	0.0	1	\$15	\$14	\$14	\$0	0.0	111
ECM 8	Install Low-Flow DHW Devices	Yes	0	0.0	1	\$15	\$14	\$14	\$0	0.0	111
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			13,288	2.6	22	\$3,536	\$6,273	\$2,999	\$3,274	0.9	15,939
<b>TOTALS (ALL MEASURES)</b>			16,534	4.7	22	\$4,316	\$25,726	\$5,461	\$20,265	4.7	19,193

# 12<sup>TH</sup> STREET WATER STATION

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>2,120</b>	<b>1.3</b>	<b>0</b>	<b>\$378</b>	<b>\$2,607</b>	<b>\$1,114</b>	<b>\$1,493</b>	<b>4.0</b>	<b>2,135</b>
ECM 1	Install LED Fixtures	Yes	648	0.0	0	\$115	\$500	\$400	\$100	0.9	653
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	No	123	0.6	0	\$22	\$1,107	\$360	\$747	34.1	124
ECM 3	Retrofit Fixtures with LED Lamps	Yes	1,349	0.6	0	\$240	\$1,000	\$354	\$646	2.7	1,358
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>1,997</b>	<b>0.6</b>	<b>0</b>	<b>\$356</b>	<b>\$1,500</b>	<b>\$754</b>	<b>\$746</b>	<b>2.1</b>	<b>2,011</b>
<b>TOTALS (ALL MEASURES)</b>			<b>2,120</b>	<b>1.3</b>	<b>0</b>	<b>\$378</b>	<b>\$2,607</b>	<b>\$1,114</b>	<b>\$1,493</b>	<b>4.0</b>	<b>2,135</b>



# 21<sup>ST</sup> STREET STORM WATER PUMP

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>3</b>	<b>0.0</b>	<b>0</b>	<b>\$1</b>	<b>\$34</b>	<b>\$4</b>	<b>\$30</b>	<b>25.1</b>	<b>3</b>
ECM 1	Retrofit Fixtures with LED Lamps	Yes	3	0.0	0	\$1	\$34	\$4	\$30	25.1	3
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>3</b>	<b>0.0</b>	<b>0</b>	<b>\$1</b>	<b>\$34</b>	<b>\$4</b>	<b>\$30</b>	<b>25.1</b>	<b>3</b>
<b>TOTALS (ALL MEASURES)</b>			<b>3</b>	<b>0.0</b>	<b>0</b>	<b>\$1</b>	<b>\$34</b>	<b>\$4</b>	<b>\$30</b>	<b>25.1</b>	<b>3</b>



# ENERGY EFFICIENT BEST PRACTICES

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

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

# MEASURES FOR FUTURE CONSIDERATION

- Retro-Commissioning Study
- Upgrade/Replace Energy Management System
- Installation of an Energy Management System
- Electric Submeter
- Ozone Laundry System
- Pool Heating System Upgrades
- Eliminate Oversized Domestic Hot Water Heating Systems
- Heating System Conversion from Steam to Hot Water
- Upgrade to a Heat Pump System
- Vestibule Revolving Doors
- Window Replacements
- Disaggregate Boiler System

# 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

	Avalon ES	Public Works	Community Hall
<i>Potential:</i>	<b>HIGH</b>	<b>HIGH</b>	<b>MEDIUM</b>
<i>System Potential: (kW)</i>	429	148	57
<i>Electric Generation: (kWh per year)</i>	511,098	176,323	67,908
<i>Displaced Cost: (per year)</i>	\$63,440	\$26,950	\$148,200

**Community Solar Energy Pilot Program:**

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



# RECOMMENDED NJCEP INCENTIVES PER BUILDING

Avalon Borough & ES	Direct Install	SmartStart	CTEEP
Avalon Elementary School + Borough Hall, Public Safety, Senior Center, Rescue Squad, Firehouse, 30 <sup>th</sup> Street Water and Sewer	X	X	X
Public Works Building, 13 <sup>th</sup> St., + 15 <sup>th</sup> St. Pump Station	X	X	X
Community Hall	X	X	X
39 <sup>th</sup> Street Tennis Building, 8 <sup>th</sup> St. Tennis + Lifeguard Building	X	X	X
14 <sup>th</sup> Street Marina, 54 <sup>th</sup> St. Marina, 10 <sup>th</sup> & Dune Restroom	X	X	X
39 <sup>th</sup> Street History Center	X	X	X
12 St. Pump Station	X	X	X
21 <sup>st</sup> St. Storm Water Pump	X	X	X



# 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](http://NJCleanEnergy.com/DI)

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

## INCENTIVE FUNDING

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

## CUSTOMER

20% of installed cost

All other eligible facilities:

## INCENTIVE FUNDING

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

## CUSTOMER

30% of installed cost



# DIRECT INSTALL

NJCleanEnergy.com/DI

## Participating Contractor

**Hutchinson Mechanical Services**

Pete Hatton

856-429-5828 x259

[petehatton@hutchbiz.com](mailto: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](http://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**

# SMARTSTART, CTEEP, & P4P: FINANCING OPTION

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

- Questions? Contact:

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

[wdruckenmiller@sjindustries.com](mailto:wdruckenmiller@sjindustries.com)





# COMBINED HEAT & POWER - FUEL CELLS

[NJCleanEnergy.com/CHP](http://NJCleanEnergy.com/CHP)

**What is CHP:** Combined Heat & Power (CHP) units generates electricity and recycle waste heat to provide heating and/or cooling

**About:**

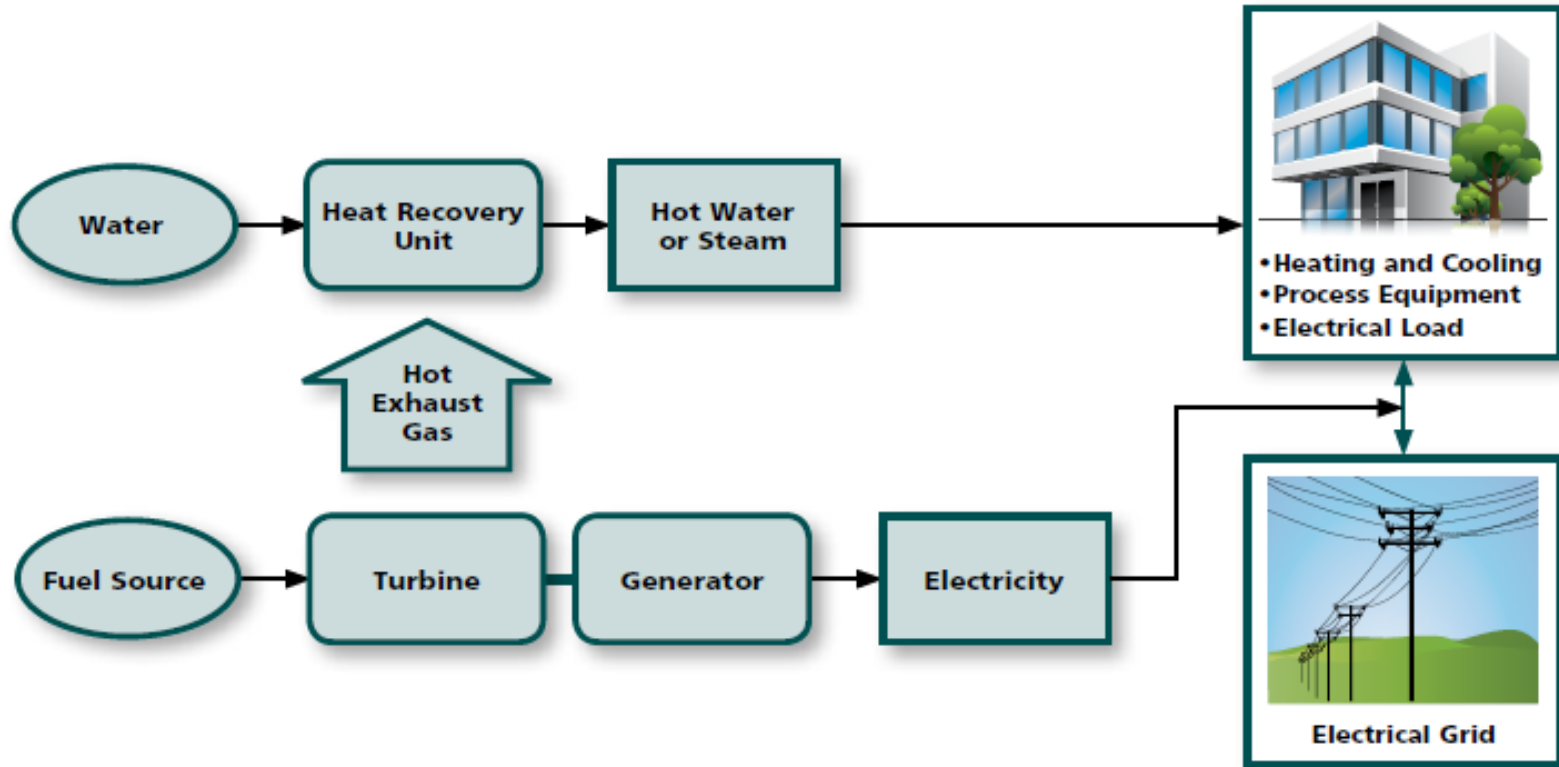
- Fuel Cells (FC) with or without heat recovery (HR)
- Resiliency with Return on Investment
- Technology-neutral incentives

**Incentives:**

- 30/50/20 Incentive payment
  - 30% when equipment purchased
  - 50% when system installed
  - 20% upon confirmation that the project is achieving the required performance

# COMBINED HEAT & POWER - FUEL CELLS

NJCleanEnergy.com/CHP



# COMBINED HEAT & POWER - FUEL CELLS

NJCleanEnergy.com/CHP

Eligible Technology	Size (Installed Rated Capacity)	Incentive (\$/Watt) <sup>(5)</sup>	% of Total Cost Cap per project	\$ Cap per project	
CHP powered by non-renewable or renewable fuel source, or a combination <sup>(4)</sup> : <ul style="list-style-type: none"> <li>• Gas Internal Combustion Engine</li> <li>• Gas Combustion Turbine</li> <li>• Microturbine</li> </ul>	≤500 kW <sup>(1)</sup>	\$2.00	30-40% <sup>(2)</sup>	\$2 million	
	>500 kW – 1 MW <sup>(1)</sup>	\$1.00			
	Fuel Cell with Heat Recovery (FCHR)	>1 MW – 3 MW <sup>(1)</sup>	\$0.55	30%	\$3 million
		>3 MW <sup>(1)</sup>	\$0.35		
Fuel Cell without Heat Recovery (FCwoHR)	Same as above <sup>(1)</sup>	Applicable amount above	30%	\$1 million	
Waste Heat to Power (WHP) <sup>(3)</sup> Powered by non-renewable fuel source. Heat recovery or other mechanical recovery from existing equipment utilizing new electric generation equipment (e.g. steam turbine)	≤1 MW <sup>(1)</sup>	\$1.00	30%	\$2 million	
	>1 MW <sup>(1)</sup>	\$0.50	30%	\$3 million	

\*Critical Facility/Blackstart bonus of 25%\*



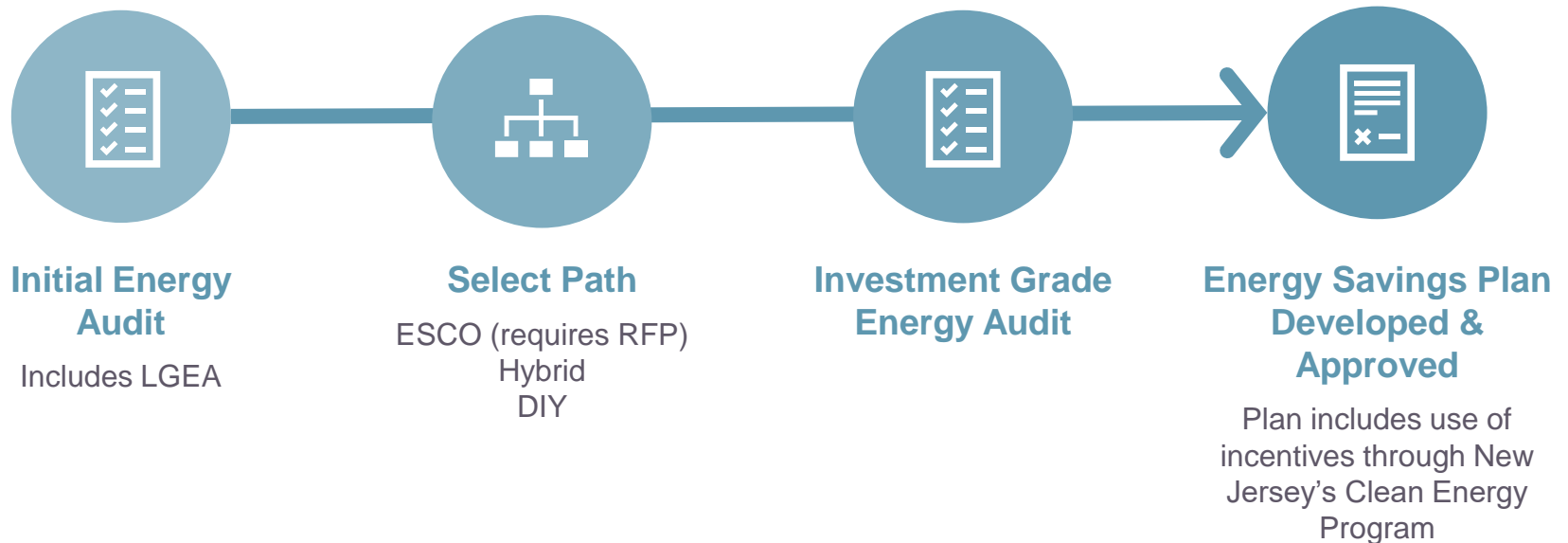
# FINANCING MECHANISM: ESIP

## 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



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## FOR MORE INFORMATION

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# FOR MORE INFORMATION

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# QUESTIONS

