



# *LGEA Presentation*

## *Lakewood Board of Fire Commissioners*

October 29, 2024

New Jersey's  
Clean Energy Program

*Lighting the way to New Jersey's Clean Energy Future*

# INTRODUCTIONS

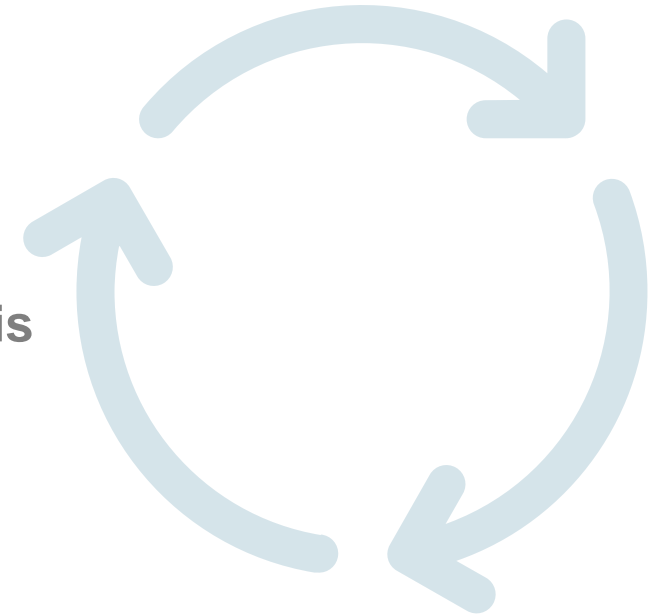
- *Lakewood Board of Fire Commissioners*
  - Yehuda Beer – Administrator
  - Erin Belfiglio – District Clerk
  - Steven Mulholland – Deputy Fire Administrator
- *NJ Clean Energy Program*
  - Sarah Walters – LGEA Project Manager
  - Moussa Traore – LGEA Technical Manager
  - Ryan Gibson – LGEA Project Auditor
  - Melissa Lott – LGEA Account Manager
- *Utility Energy Efficiency Programs*
  - John Sousa – JCP&L
  - Tiffany Lewis – JCP&L
  - Andrew Doss – JCP&L
  - Jennifer Gorka – NJNG
  - Fred Madera - NJNG

# 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 Lakewood Board of Fire Commissioners

# 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
- Food Service & Refrigeration

## Utility Consumption:

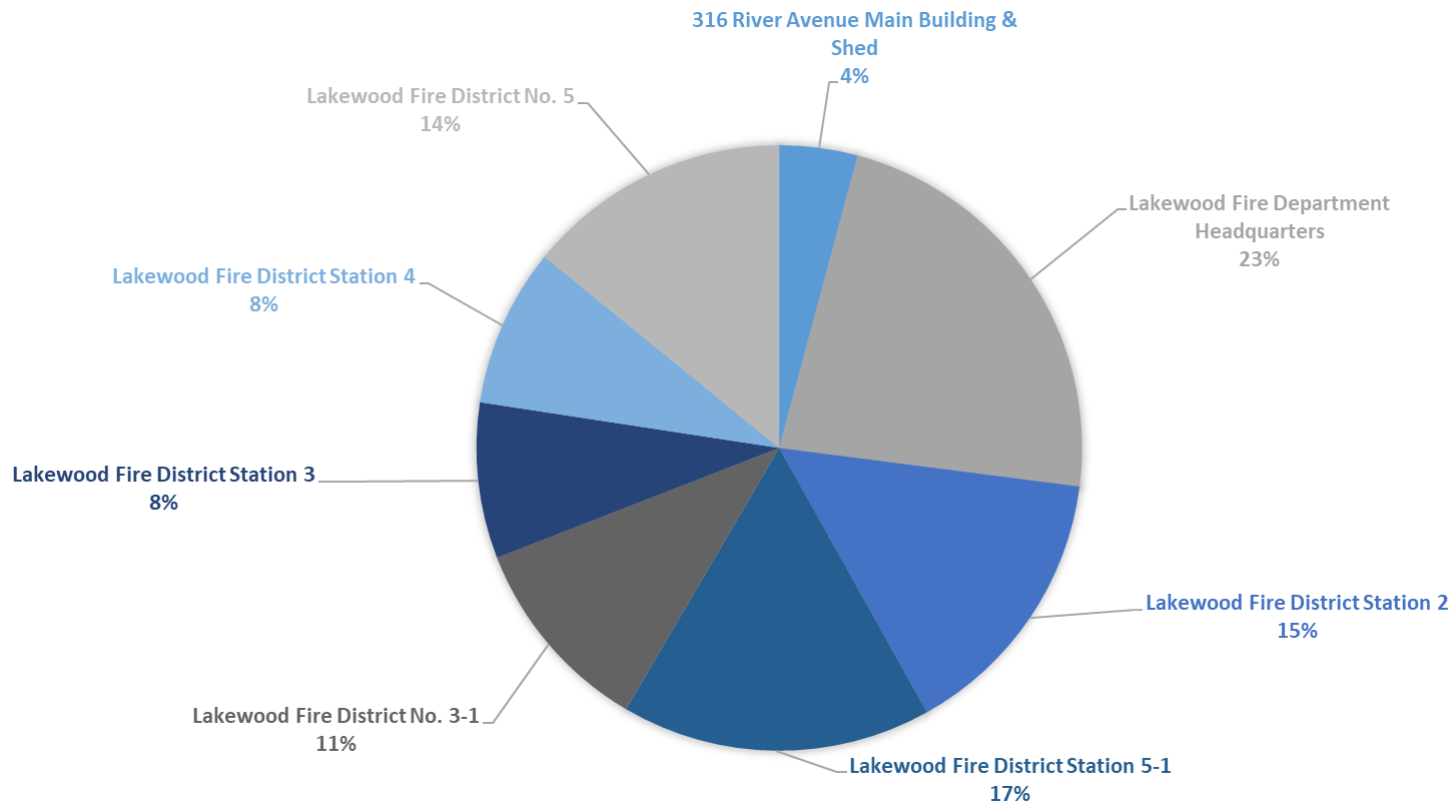
- Electric Consumption and Costs
- Natural Gas Consumption and Costs
- Water Consumption and Costs

## Sites Visited/Analyzed

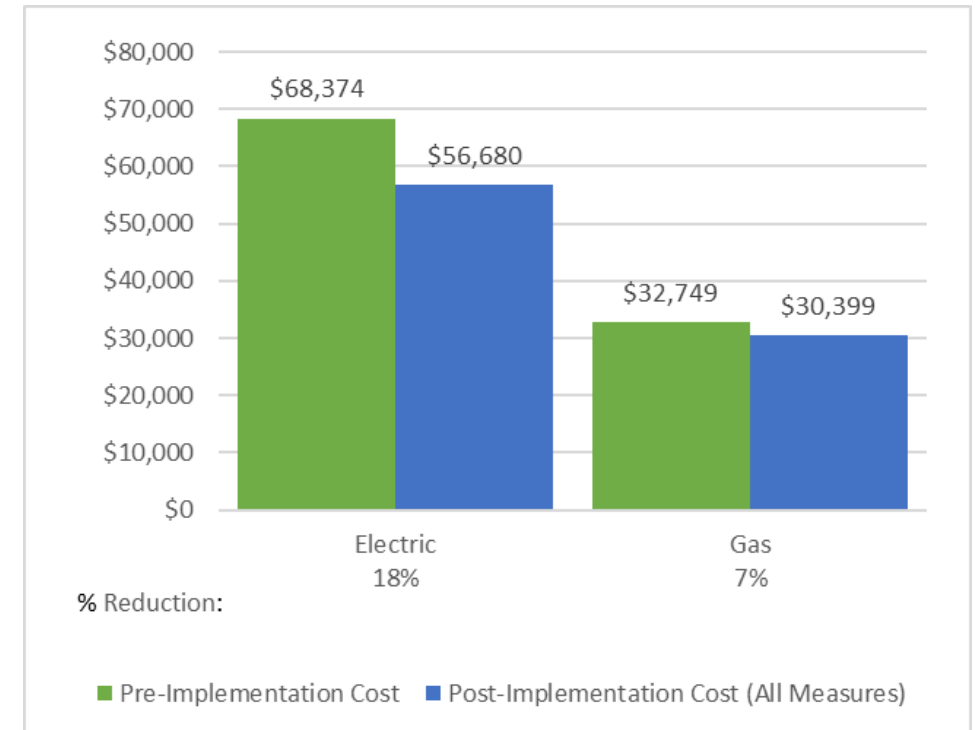
- Lakewood Fire District Station 3-1
- Lakewood Fire District Station 4
- Lakewood Fire District Station 5-1
- 316 River Avenue Main Building & Shed
- Lakewood Fire District Station 3
- Lakewood Fire District Station 5
- Lakewood Fire Department Headquarters
- Lakewood Fire District Station 2

# UTILITY BREAKOUT


Percent of Total Annual Energy Costs



Pre & Post Implementation Cost



# BENCHMARKING



LEARN MORE AT  
energystar.gov

## ENERGY STAR® Statement of Energy Performance

N/A

ENERGY STAR® Score<sup>1</sup>

Lakewood Fire Department, Headquarters

Primary Property Type: Fire Station

Gross Floor Area (ft²): 12,350

Built: 2002

For Year Ending: July 31, 2023

Date Generated: June 12, 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

Lakewood Fire Department, Headquarters

733 Cedar Bridge Avenue

Lakewood, New Jersey 08701

Property Owner

Lakewood Board of Fire Commissioners

733 Cedar Bridge Ave.

Lakewood, NJ 08701

(732) 364-5151

Primary Contact

Yehuda Beer

733 Cedar Bridge Avenue

Lakewood, NJ 08701

(732) 364-5151 x6102

ybeer@lakewoodfd.org

Property ID: 32919829

Energy Consumption and Energy Use Intensity (EUI)

Site EUI

60.5 kBtu/ft²

Source EUI

93.8 kBtu/ft²

Annual Energy by Fuel

Electric - Grid (kBtu)

214,137 (29%)

Natural Gas (kBtu)

532,471 (71%)

National Median Comparison

National Median Site EUI (kBtu/ft²)

80.5

National Median Source EUI (kBtu/ft²)

124.9

% Diff from National Median Source EUI

-25%

Annual Emissions

Total (Location-Based) GHG Emissions

48

(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  
60.5 kBtu/ft²

Source EUI  
93.8 kBtu/ft²

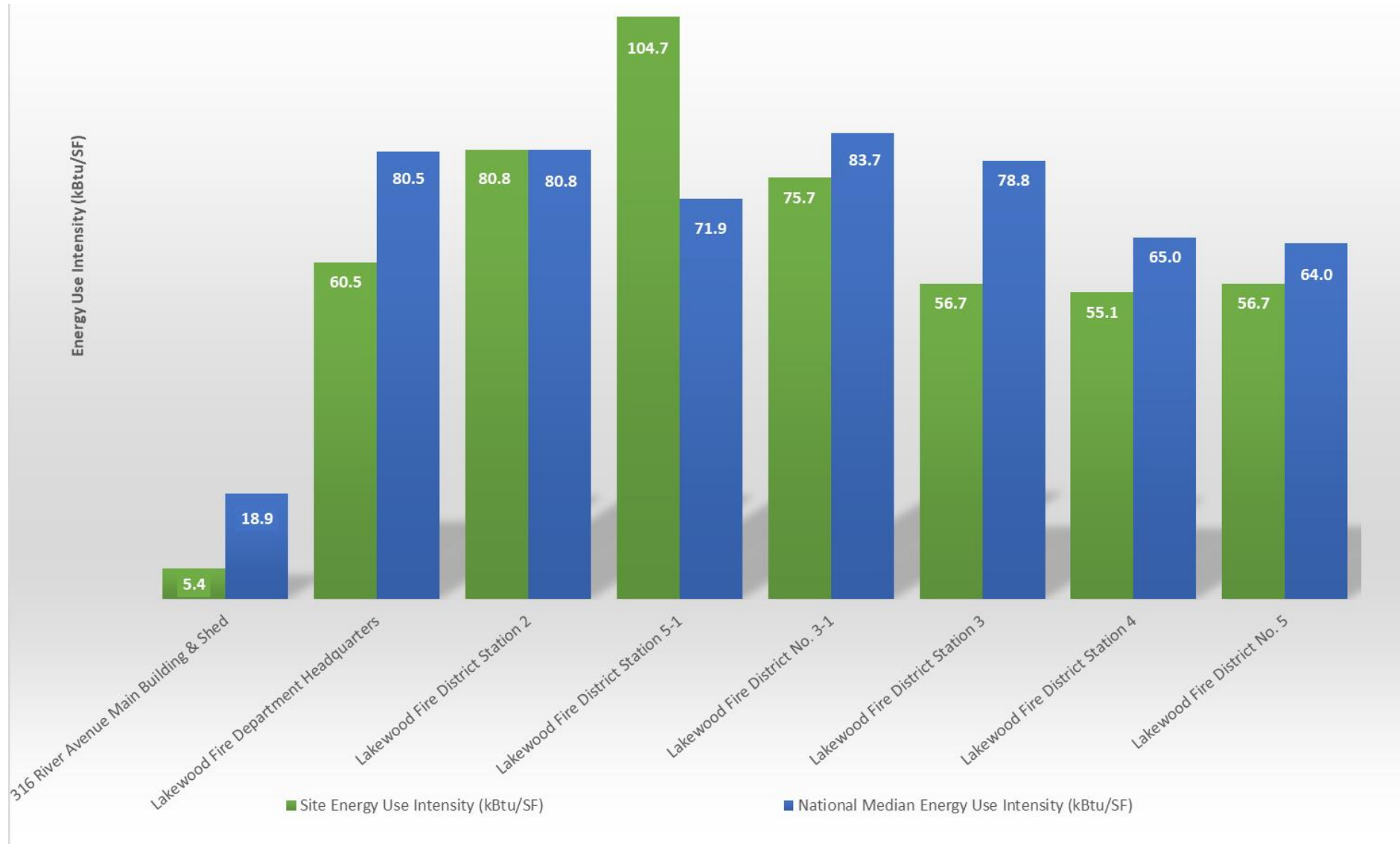
National Median Comparison

National Median Site EUI (kBtu/ft²)	80.5
National Median Source EUI (kBtu/ft²)	124.9
% Diff from National Median Source EUI	-25%

Site Name	ENERGY STAR® Score
All Sites	N/A

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.

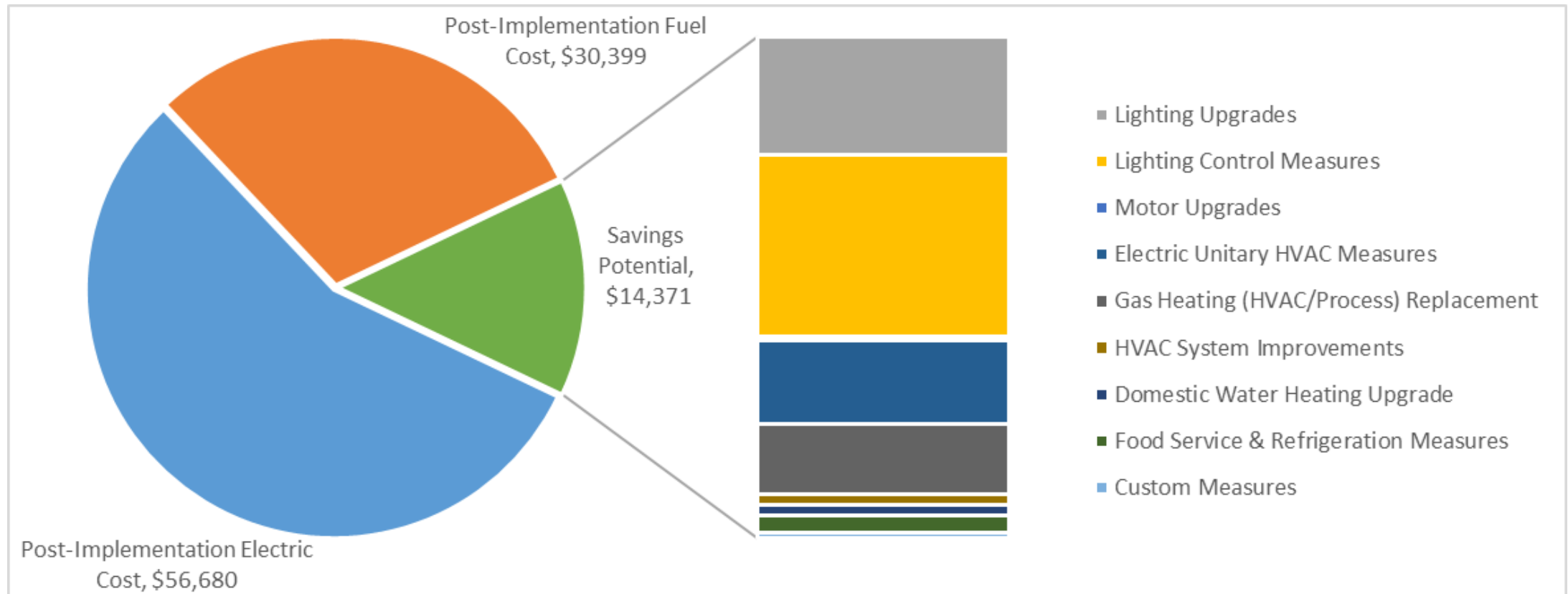
# BENCHMARKING





# ALL OPPORTUNITIES

## Savings Potential



# ALL OPPORTUNITIES (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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>		<b>16,021</b>	<b>2.2</b>	<b>-3.4</b>	<b>\$3,386</b>	<b>\$4,040</b>	<b>\$840</b>	<b>\$3,200</b>	<b>0.9</b>	<b>15,735</b>
ECM 1	Retrofit Fixtures with LED Lamps	16,021	2.2	-3.4	\$3,386	\$4,040	\$840	\$3,200	0.9	15,735
<b>Lighting Control Measures</b>		<b>26,238</b>	<b>4.1</b>	<b>-5.6</b>	<b>\$5,193</b>	<b>\$17,990</b>	<b>\$3,940</b>	<b>\$14,050</b>	<b>2.7</b>	<b>25,767</b>
ECM 2	Install Occupancy Sensor Lighting Controls	22,336	3.6	-4.8	\$4,500	\$14,630	\$2,270	\$12,360	2.7	21,935
ECM 3	Install High/Low Lighting Controls	3,902	0.5	-0.8	\$693	\$3,360	\$1,670	\$1,690	2.4	3,832
<b>Motor Upgrades</b>		<b>544</b>	<b>0.1</b>	<b>0.0</b>	<b>\$120</b>	<b>\$500</b>	<b>\$0</b>	<b>\$500</b>	<b>4.2</b>	<b>548</b>
ECM 4	Premium Efficiency Motors	544	0.1	0.0	\$120	\$500	\$0	\$500	4.2	548
<b>Unitary HVAC Measures</b>		<b>11,737</b>	<b>7.6</b>	<b>-5.4</b>	<b>\$2,381</b>	<b>\$90,600</b>	<b>\$4,200</b>	<b>\$86,400</b>	<b>36.3</b>	<b>11,192</b>
ECM 5	Install High Efficiency Air Conditioning Units	11,737	7.6	-5.4	\$2,381	\$90,600	\$4,200	\$86,400	36.3	11,192
<b>Gas Heating (HVAC/Process) Replacement</b>		<b>1,744</b>	<b>2.5</b>	<b>117.6</b>	<b>\$2,038</b>	<b>\$72,700</b>	<b>\$8,000</b>	<b>\$64,700</b>	<b>31.7</b>	<b>15,525</b>
ECM 6	Install High Efficiency Furnaces	0	0.0	35.5	\$543	\$17,100	\$2,500	\$14,600	26.9	4,158
ECM 7	Install High Efficiency Unit Heaters	1,744	2.5	13.3	\$437	\$8,500	\$0	\$8,500	19.5	3,315
ECM 8	Install Infrared Heaters	0	0.0	68.8	\$1,059	\$47,100	\$5,500	\$41,600	39.3	8,052

# ALL OPPORTUNITIES (2 OF 2)

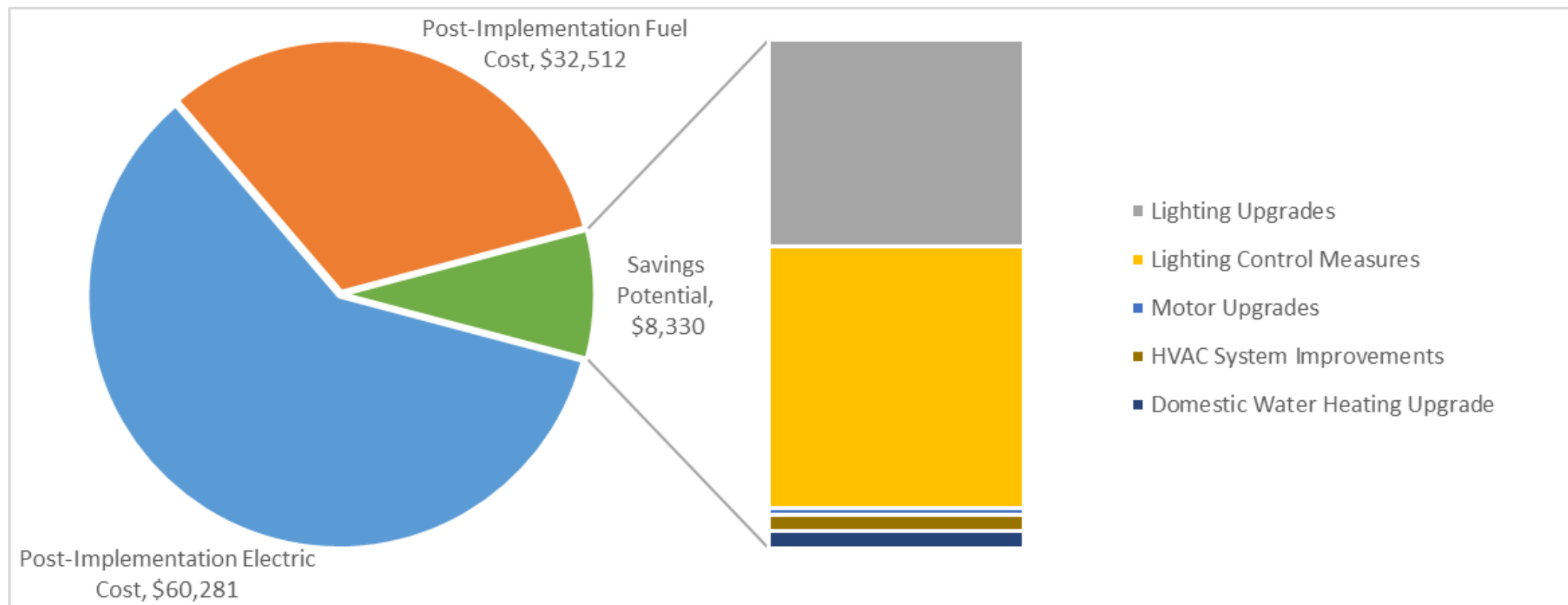
#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO <sub>2</sub> e Emissions Reduction (lbs)
<b>HVAC System Improvements</b>		<b>764</b>	<b>0.0</b>	<b>6.2</b>	<b>\$271</b>	<b>\$1,370</b>	<b>\$140</b>	<b>\$1,230</b>	<b>4.5</b>	<b>1,496</b>
ECM 9	Install Programmable Thermostats	764	0.0	0.0	\$180	\$380	\$0	\$380	2.1	770
ECM 10	Install Pipe Insulation	0	0.0	6.2	\$92	\$990	\$140	\$850	9.3	727
<b>Domestic Water Heating Upgrade</b>		<b>278</b>	<b>0.0</b>	<b>17.6</b>	<b>\$304</b>	<b>\$4,510</b>	<b>\$550</b>	<b>\$3,960</b>	<b>13.0</b>	<b>2,340</b>
ECM 11	Install Tankless Water Heater	0	0.0	1.7	\$24	\$3,300	\$300	\$3,000	125.9	198
ECM 12	Install Low-Flow DHW Devices	278	0.0	15.9	\$281	\$1,210	\$250	\$960	3.4	2,142
<b>Food Service &amp; Refrigeration Measures</b>		<b>2,613</b>	<b>0.3</b>	<b>0.0</b>	<b>\$514</b>	<b>\$12,800</b>	<b>\$0</b>	<b>\$12,800</b>	<b>24.9</b>	<b>2,631</b>
ECM 13	Replace Refrigeration Equipment	2,613	0.3	0.0	\$514	\$12,800	\$0	\$12,800	24.9	2,631
<b>Custom Measures</b>		<b>-2,509</b>	<b>0.0</b>	<b>27.0</b>	<b>-\$163</b>	<b>\$5,900</b>	<b>\$0</b>	<b>\$5,900</b>	<b>-36.2</b>	<b>635</b>
ECM 14	Replace Gas Fired Water Heater with Heat Pump Water Heater	-2,509	0.0	27.0	-\$163	\$5,900	\$0	\$5,900	-36.2	635
<b>TOTALS (ALL MEASURES)</b>		<b>57,429</b>	<b>16.8</b>	<b>154.1</b>	<b>\$14,045</b>	<b>\$210,410</b>	<b>\$17,670</b>	<b>\$192,740</b>	<b>13.7</b>	<b>75,869</b>

\* - 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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>		<b>16,021</b>	<b>2.2</b>	<b>-3.4</b>	<b>\$3,386</b>	<b>\$4,040</b>	<b>\$840</b>	<b>\$3,200</b>	<b>0.9</b>	<b>15,735</b>
ECM 1	Retrofit Fixtures with LED Lamps	16,021	2.2	-3.4	\$3,386	\$4,040	\$840	\$3,200	0.9	15,735
<b>Lighting Control Measures</b>		<b>19,552</b>	<b>3.4</b>	<b>-4.2</b>	<b>\$4,272</b>	<b>\$13,930</b>	<b>\$3,020</b>	<b>\$10,910</b>	<b>2.6</b>	<b>19,201</b>
ECM 2	Install Occupancy Sensor Lighting Controls	17,513	3.1	-3.7	\$3,831	\$11,690	\$1,920	\$9,770	2.6	17,199
ECM 3	Install High/Low Lighting Controls	2,039	0.3	-0.4	\$441	\$2,240	\$1,100	\$1,140	2.6	2,002
<b>Motor Upgrades</b>		<b>544</b>	<b>0.1</b>	<b>0.0</b>	<b>\$120</b>	<b>\$500</b>	<b>\$0</b>	<b>\$500</b>	<b>4.2</b>	<b>548</b>
ECM 4	Premium Efficiency Motors	544	0.1	0.0	\$120	\$500	\$0	\$500	4.2	548
<b>HVAC System Improvements</b>		<b>764</b>	<b>0.0</b>	<b>6.2</b>	<b>\$271</b>	<b>\$1,370</b>	<b>\$140</b>	<b>\$1,230</b>	<b>4.5</b>	<b>1,496</b>
ECM 9	Install Programmable Thermostats	764	0.0	0.0	\$180	\$380	\$0	\$380	2.1	770
ECM 10	Install Pipe Insulation	0	0.0	6.2	\$92	\$990	\$140	\$850	9.3	727
<b>Domestic Water Heating Upgrade</b>		<b>278</b>	<b>0.0</b>	<b>15.9</b>	<b>\$281</b>	<b>\$1,210</b>	<b>\$250</b>	<b>\$960</b>	<b>3.4</b>	<b>2,142</b>
ECM 12	Install Low-Flow DHW Devices	278	0.0	15.9	\$281	\$1,210	\$250	\$960	3.4	2,142
<b>TOTALS</b>		<b>37,159</b>	<b>5.7</b>	<b>14.5</b>	<b>\$8,330</b>	<b>\$21,050</b>	<b>\$4,250</b>	<b>\$16,800</b>	<b>2.0</b>	<b>39,123</b>

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# LAKEWOOD FIRE DISTRICT STATION 3-1

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Control Measures</b>			<b>900</b>	<b>0.2</b>	<b>0</b>	<b>\$198</b>	<b>\$1,090</b>	<b>\$160</b>	<b>\$930</b>	<b>4.7</b>	<b>883</b>
ECM 1	Install Occupancy Sensor Lighting Controls	No	666	0.2	0	\$147	\$810	\$90	\$720	4.9	654
ECM 2	Install High/Low Lighting Controls	No	234	0.0	0	\$52	\$280	\$70	\$210	4.1	230
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>3</b>	<b>\$38</b>	<b>\$230</b>	<b>\$40</b>	<b>\$190</b>	<b>5.0</b>	<b>295</b>
ECM 3	Install Low-Flow DHW Devices	Yes	0	0.0	3	\$38	\$230	\$40	\$190	5.0	295
<b>Custom Measures****</b>			<b>-1,505</b>	<b>0.0</b>	<b>16</b>	<b>-\$96</b>	<b>\$2,500</b>	<b>\$0</b>	<b>\$2,500</b>	<b>-26.0</b>	<b>358</b>
ECM 4	Replace Gas Fired Water Heater with Heat Pump Water Heater****	No	-1,505	0.0	16	-\$96	\$2,500	\$0	\$2,500	-26.0	358
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>0</b>	<b>0.0</b>	<b>3</b>	<b>\$38</b>	<b>\$230</b>	<b>\$40</b>	<b>\$190</b>	<b>5.0</b>	<b>295</b>
<b>TOTALS (ALL MEASURES)</b>			<b>-605</b>	<b>0.2</b>	<b>18</b>	<b>\$140</b>	<b>\$3,820</b>	<b>\$200</b>	<b>\$3,620</b>	<b>25.8</b>	<b>1,536</b>

\* - 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 4.3

# LAKEWOOD FIRE DISTRICT STATION 4

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>934</b>	<b>0.1</b>	<b>0</b>	<b>\$115</b>	<b>\$150</b>	<b>\$30</b>	<b>\$120</b>	<b>1.0</b>	<b>917</b>
ECM 1	Retrofit Fixtures with LED Lamps	Yes	934	0.1	0	\$115	\$150	\$30	\$120	1.0	917
<b>Lighting Control Measures</b>			<b>5,680</b>	<b>0.5</b>	<b>-1</b>	<b>\$698</b>	<b>\$2,640</b>	<b>\$720</b>	<b>\$1,920</b>	<b>2.8</b>	<b>5,578</b>
ECM 2	Install Occupancy Sensor Lighting Controls	No	4,051	0.4	-1	\$498	\$1,800	\$220	\$1,580	3.2	3,978
ECM 3	Install High/Low Lighting Controls	No	1,629	0.2	0	\$200	\$840	\$500	\$340	1.7	1,600
<b>Unitary HVAC Measures</b>			<b>1,950</b>	<b>1.0</b>	<b>0</b>	<b>\$246</b>	<b>\$16,800</b>	<b>\$800</b>	<b>\$16,000</b>	<b>64.9</b>	<b>1,964</b>
ECM 4	Install High Efficiency Air Conditioning Units	No	1,950	1.0	0	\$246	\$16,800	\$800	\$16,000	64.9	1,964
<b>Gas Heating (HVAC/Process) Replacement</b>			<b>1,744</b>	<b>2.5</b>	<b>10</b>	<b>\$377</b>	<b>\$5,900</b>	<b>\$0</b>	<b>\$5,900</b>	<b>15.6</b>	<b>2,888</b>
ECM 5	Install High Efficiency Unit Heaters	No	1,744	2.5	10	\$377	\$5,900	\$0	\$5,900	15.6	2,888
<b>Domestic Water Heating Upgrade</b>			<b>278</b>	<b>0.0</b>	<b>0</b>	<b>\$35</b>	<b>\$20</b>	<b>\$10</b>	<b>\$10</b>	<b>0.3</b>	<b>280</b>
ECM 6	Install Low-Flow DHW Devices	Yes	278	0.0	0	\$35	\$20	\$10	\$10	0.3	280
<b>Food Service &amp; Refrigeration Measures</b>			<b>653</b>	<b>0.1</b>	<b>0</b>	<b>\$83</b>	<b>\$3,200</b>	<b>\$0</b>	<b>\$3,200</b>	<b>38.8</b>	<b>658</b>
ECM 7	Replace Refrigeration Equipment	No	653	0.1	0	\$83	\$3,200	\$0	\$3,200	38.8	658
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>1,212</b>	<b>0.1</b>	<b>0</b>	<b>\$150</b>	<b>\$170</b>	<b>\$40</b>	<b>\$130</b>	<b>0.9</b>	<b>1,197</b>
<b>TOTALS (ALL MEASURES)</b>			<b>11,239</b>	<b>4.2</b>	<b>8</b>	<b>\$1,554</b>	<b>\$28,710</b>	<b>\$1,560</b>	<b>\$27,150</b>	<b>17.5</b>	<b>12,284</b>

\* - 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).

# LAKEWOOD FIRE DISTRICT STATION 5-1

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>4,055</b>	<b>0.8</b>	<b>-1</b>	<b>\$914</b>	<b>\$1,720</b>	<b>\$320</b>	<b>\$1,400</b>	<b>1.5</b>	<b>3,984</b>
ECM 1	Retrofit Fixtures with LED Lamps	Yes	4,055	0.8	-1	\$914	\$1,720	\$320	\$1,400	1.5	3,984
<b>Lighting Control Measures</b>			<b>3,488</b>	<b>0.6</b>	<b>-1</b>	<b>\$786</b>	<b>\$2,490</b>	<b>\$830</b>	<b>\$1,660</b>	<b>2.1</b>	<b>3,426</b>
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	3,391	0.6	-1	\$764	\$2,210	\$760	\$1,450	1.9	3,331
ECM 3	Install High/Low Lighting Controls	Yes	97	0.0	0	\$22	\$280	\$70	\$210	9.6	95
<b>Unitary HVAC Measures</b>			<b>2,700</b>	<b>1.4</b>	<b>3</b>	<b>\$656</b>	<b>\$19,400</b>	<b>\$600</b>	<b>\$18,800</b>	<b>28.6</b>	<b>3,041</b>
ECM 4	Install High Efficiency Air Conditioning Units	No	2,700	1.4	3	\$656	\$19,400	\$600	\$18,800	28.6	3,041
<b>HVAC System Improvements</b>			<b>0</b>	<b>0.0</b>	<b>6</b>	<b>\$80</b>	<b>\$820</b>	<b>\$120</b>	<b>\$700</b>	<b>8.7</b>	<b>651</b>
ECM 5	Install Pipe Insulation	Yes	0	0.0	6	\$80	\$820	\$120	\$700	8.7	651
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>2</b>	<b>\$25</b>	<b>\$120</b>	<b>\$30</b>	<b>\$90</b>	<b>3.6</b>	<b>203</b>
ECM 6	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$25	\$120	\$30	\$90	3.6	203
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>7,543</b>	<b>1.4</b>	<b>6</b>	<b>\$1,806</b>	<b>\$5,150</b>	<b>\$1,300</b>	<b>\$3,850</b>	<b>2.1</b>	<b>8,264</b>
<b>TOTALS (ALL MEASURES)</b>			<b>10,243</b>	<b>2.8</b>	<b>8</b>	<b>\$2,462</b>	<b>\$24,550</b>	<b>\$1,900</b>	<b>\$22,650</b>	<b>9.2</b>	<b>11,305</b>

\* - 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).



# 316 RIVER AVENUE MAIN BUILDING & SHED

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Control Measures</b>			<b>106</b>	<b>0.0</b>	<b>0</b>	<b>\$24</b>	<b>\$330</b>	<b>\$40</b>	<b>\$290</b>	<b>11.9</b>	<b>104</b>
ECM 1	Install Occupancy Sensor Lighting Controls	No	106	0.0	0	\$24	\$330	\$40	\$290	11.9	104
<b>Unitary HVAC Measures</b>			<b>632</b>	<b>0.6</b>	<b>0</b>	<b>\$148</b>	<b>\$7,000</b>	<b>\$400</b>	<b>\$6,600</b>	<b>44.5</b>	<b>636</b>
ECM 2	Install High Efficiency Air Conditioning Units	No	632	0.6	0	\$148	\$7,000	\$400	\$6,600	44.5	636
<b>HVAC System Improvements</b>			<b>764</b>	<b>0.0</b>	<b>1</b>	<b>\$191</b>	<b>\$550</b>	<b>\$20</b>	<b>\$530</b>	<b>2.8</b>	<b>845</b>
ECM 3	Install Programmable Thermostats	Yes	764	0.0	0	\$180	\$380	\$0	\$380	2.1	770
ECM 4	Install Pipe Insulation	Yes	0	0.0	1	\$11	\$170	\$20	\$150	13.1	75
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>0</b>	<b>\$8</b>	<b>\$10</b>	<b>\$0</b>	<b>\$10</b>	<b>1.2</b>	<b>56</b>
ECM 5	Install Low-Flow DHW Devices	Yes	0	0.0	0	\$8	\$10	\$0	\$10	1.2	56
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>764</b>	<b>0.0</b>	<b>1</b>	<b>\$199</b>	<b>\$560</b>	<b>\$20</b>	<b>\$540</b>	<b>2.7</b>	<b>900</b>
<b>TOTALS (ALL MEASURES)</b>			<b>1,502</b>	<b>0.7</b>	<b>1</b>	<b>\$372</b>	<b>\$7,890</b>	<b>\$460</b>	<b>\$7,430</b>	<b>20.0</b>	<b>1,641</b>

\* - 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).

# LAKEWOOD FIRE DISTRICT STATION 3

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Control Measures</b>			<b>2,095</b>	<b>0.6</b>	<b>0</b>	<b>\$467</b>	<b>\$2,020</b>	<b>\$280</b>	<b>\$1,740</b>	<b>3.7</b>	<b>2,058</b>
ECM 1	Install Occupancy Sensor Lighting Controls	Yes	2,015	0.5	0	\$449	\$1,740	\$210	\$1,530	3.4	1,979
ECM 2	Install High/Low Lighting Controls	Yes	80	0.0	0	\$18	\$280	\$70	\$210	11.7	79
<b>Unitary HVAC Measures</b>			<b>1,052</b>	<b>0.8</b>	<b>0</b>	<b>\$238</b>	<b>\$16,200</b>	<b>\$800</b>	<b>\$15,400</b>	<b>64.7</b>	<b>1,060</b>
ECM 3	Install High Efficiency Air Conditioning Units	No	1,052	0.8	0	\$238	\$16,200	\$800	\$15,400	64.7	1,060
<b>Gas Heating (HVAC/Process) Replacement</b>			<b>0</b>	<b>0.0</b>	<b>49</b>	<b>\$707</b>	<b>\$16,300</b>	<b>\$2,000</b>	<b>\$14,300</b>	<b>20.2</b>	<b>5,780</b>
ECM 4	Install High Efficiency Furnaces	No	0	0.0	25	\$359	\$7,500	\$1,000	\$6,500	18.1	2,934
ECM 5	Install Infrared Heaters	No	0	0.0	24	\$348	\$8,800	\$1,000	\$7,800	22.4	2,846
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>3</b>	<b>\$36</b>	<b>\$230</b>	<b>\$40</b>	<b>\$190</b>	<b>5.3</b>	<b>295</b>
ECM 6	Install Low-Flow DHW Devices	Yes	0	0.0	3	\$36	\$230	\$40	\$190	5.3	295
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>2,095</b>	<b>0.6</b>	<b>2</b>	<b>\$503</b>	<b>\$2,250</b>	<b>\$320</b>	<b>\$1,930</b>	<b>3.8</b>	<b>2,352</b>
<b>TOTALS (ALL MEASURES)</b>			<b>3,148</b>	<b>1.4</b>	<b>51</b>	<b>\$1,448</b>	<b>\$34,750</b>	<b>\$3,120</b>	<b>\$31,630</b>	<b>21.8</b>	<b>9,192</b>

\* - 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).

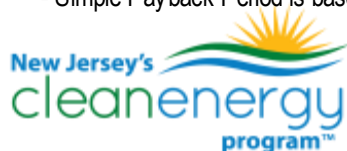
\*\*\*\* - Negative payback explained in section 4.4

# LAKEWOOD FIRE DISTRICT STATION 5

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>8,090</b>	<b>0.8</b>	<b>-2</b>	<b>\$1,710</b>	<b>\$1,280</b>	<b>\$280</b>	<b>\$1,000</b>	<b>0.6</b>	<b>7,945</b>
ECM 1	Retrofit Fixtures with LED Lamps	Yes	8,090	0.8	-2	\$1,710	\$1,280	\$280	\$1,000	0.6	7,945
<b>Lighting Control Measures</b>			<b>5,910</b>	<b>0.6</b>	<b>-1</b>	<b>\$1,249</b>	<b>\$3,830</b>	<b>\$690</b>	<b>\$3,140</b>	<b>2.5</b>	<b>5,804</b>
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	4,974	0.5	-1	\$1,051	\$3,270	\$410	\$2,860	2.7	4,884
ECM 3	Install High/Low Lighting Controls	Yes	936	0.1	0	\$198	\$560	\$280	\$280	1.4	919
<b>Gas Heating (HVAC/Process) Replacement</b>			<b>0</b>	<b>0.0</b>	<b>13</b>	<b>\$218</b>	<b>\$11,400</b>	<b>\$1,000</b>	<b>\$10,400</b>	<b>47.6</b>	<b>1,565</b>
ECM 4	Install High Efficiency Unit Heaters	No	0	0.0	4	\$60	\$2,600	\$0	\$2,600	43.5	428
ECM 5	Install Infrared Heaters	No	0	0.0	10	\$159	\$8,800	\$1,000	\$7,800	49.1	1,138
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>2</b>	<b>\$28</b>	<b>\$120</b>	<b>\$30</b>	<b>\$90</b>	<b>3.2</b>	<b>203</b>
ECM 6	Install Low-Flow DHW Devices	Yes	0	0.0	2	\$28	\$120	\$30	\$90	3.2	203
<b>Food Service &amp; Refrigeration Measures</b>			<b>653</b>	<b>0.1</b>	<b>0</b>	<b>\$140</b>	<b>\$3,200</b>	<b>\$0</b>	<b>\$3,200</b>	<b>22.8</b>	<b>658</b>
ECM 7	Replace Refrigeration Equipment	No	653	0.1	0	\$140	\$3,200	\$0	\$3,200	22.8	658
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>14,000</b>	<b>1.3</b>	<b>-1</b>	<b>\$2,988</b>	<b>\$5,230</b>	<b>\$1,000</b>	<b>\$4,230</b>	<b>1.4</b>	<b>13,952</b>
<b>TOTALS (ALL MEASURES)</b>			<b>14,653</b>	<b>1.4</b>	<b>12</b>	<b>\$3,347</b>	<b>\$19,830</b>	<b>\$2,000</b>	<b>\$17,830</b>	<b>5.3</b>	<b>16,175</b>

\* - 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).



# LAKEWOOD FIRE DISTRICT HEADQUARTERS

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Upgrades</b>			<b>2,942</b>	<b>0.6</b>	<b>-1</b>	<b>\$647</b>	<b>\$890</b>	<b>\$210</b>	<b>\$680</b>	<b>1.1</b>	<b>2,889</b>
ECM 1	Retrofit Fixtures with LED Lamps	Yes	2,942	0.6	-1	\$647	\$890	\$210	\$680	1.1	2,889
<b>Lighting Control Measures</b>			<b>5,987</b>	<b>1.1</b>	<b>-1</b>	<b>\$1,316</b>	<b>\$4,440</b>	<b>\$930</b>	<b>\$3,510</b>	<b>2.7</b>	<b>5,879</b>
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	5,296	1.0	-1	\$1,164	\$3,600	\$430	\$3,170	2.7	5,201
ECM 3	Install High/Low Lighting Controls	Yes	691	0.1	0	\$152	\$840	\$500	\$340	2.2	679
<b>Unitary HVAC Measures</b>			<b>4,575</b>	<b>3.3</b>	<b>0</b>	<b>\$1,023</b>	<b>\$21,700</b>	<b>\$1,100</b>	<b>\$20,600</b>	<b>20.1</b>	<b>4,607</b>
ECM 4	Install High Efficiency Air Conditioning Units	No	4,575	3.3	0	\$1,023	\$21,700	\$1,100	\$20,600	20.1	4,607
<b>Gas Heating (HVAC/Process) Replacement</b>			<b>0</b>	<b>0.0</b>	<b>28</b>	<b>\$496</b>	<b>\$17,200</b>	<b>\$2,500</b>	<b>\$14,700</b>	<b>29.6</b>	<b>3,301</b>
ECM 5	Install High Efficiency Furnaces	No	0	0.0	10	\$184	\$9,600	\$1,500	\$8,100	44.0	1,224
ECM 6	Install Infrared Heaters	No	0	0.0	18	\$312	\$7,600	\$1,000	\$6,600	21.1	2,077
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>3</b>	<b>\$61</b>	<b>\$240</b>	<b>\$50</b>	<b>\$190</b>	<b>3.1</b>	<b>406</b>
ECM 7	Install Low-Flow DHW Devices	Yes	0	0.0	3	\$61	\$240	\$50	\$190	3.1	406
<b>Food Service &amp; Refrigeration Measures</b>			<b>653</b>	<b>0.1</b>	<b>0</b>	<b>\$146</b>	<b>\$3,200</b>	<b>\$0</b>	<b>\$3,200</b>	<b>21.9</b>	<b>658</b>
ECM 8	Replace Refrigeration Equipment	No	653	0.1	0	\$146	\$3,200	\$0	\$3,200	21.9	658
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>8,928</b>	<b>1.7</b>	<b>2</b>	<b>\$2,024</b>	<b>\$5,570</b>	<b>\$1,190</b>	<b>\$4,380</b>	<b>2.2</b>	<b>9,174</b>
<b>TOTALS (ALL MEASURES)</b>			<b>14,156</b>	<b>5.0</b>	<b>30</b>	<b>\$3,689</b>	<b>\$47,670</b>	<b>\$4,790</b>	<b>\$42,880</b>	<b>11.6</b>	<b>17,740</b>

\* - 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).

# LAKEWOOD FIRE DISTRICT STATION 2

#	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 <sub>2</sub> e Emissions Reduction (lbs)
<b>Lighting Control Measures</b>			<b>2,072</b>	<b>0.6</b>	<b>0</b>	<b>\$453</b>	<b>\$1,150</b>	<b>\$290</b>	<b>\$860</b>	<b>1.9</b>	<b>2,035</b>
ECM 1	Install Occupancy Sensor Lighting Controls	Yes	1,838	0.5	0	\$402	\$870	\$110	\$760	1.9	1,805
ECM 2	Install High/Low Lighting Controls	Yes	234	0.1	0	\$51	\$280	\$180	\$100	2.0	230
<b>Motor Upgrades</b>			<b>544</b>	<b>0.1</b>	<b>0</b>	<b>\$120</b>	<b>\$500</b>	<b>\$0</b>	<b>\$500</b>	<b>4.2</b>	<b>548</b>
ECM 3	Premium Efficiency Motors	Yes	544	0.1	0	\$120	\$500	\$0	\$500	4.2	548
<b>Unitary HVAC Measures</b>			<b>828</b>	<b>0.6</b>	<b>-8</b>	<b>\$69</b>	<b>\$9,500</b>	<b>\$500</b>	<b>\$9,000</b>	<b>130.3</b>	<b>-116</b>
ECM 4	Install High Efficiency Air Conditioning Units	No	828	0.6	-8	\$69	\$9,500	\$500	\$9,000	130.3	-116
<b>Gas Heating (HVAC/Process) Replacement</b>			<b>0</b>	<b>0.0</b>	<b>17</b>	<b>\$240</b>	<b>\$21,900</b>	<b>\$2,500</b>	<b>\$19,400</b>	<b>80.9</b>	<b>1,991</b>
ECM 5	Install Infrared Heaters	No	0	0.0	17	\$240	\$21,900	\$2,500	\$19,400	80.9	1,991
<b>Domestic Water Heating Upgrade</b>			<b>0</b>	<b>0.0</b>	<b>5</b>	<b>\$73</b>	<b>\$3,540</b>	<b>\$350</b>	<b>\$3,190</b>	<b>43.9</b>	<b>604</b>
ECM 6	Install Tankless Water Heater	No	0	0.0	2	\$24	\$3,300	\$300	\$3,000	125.9	198
ECM 7	Install Low-Flow DHW Devices	Yes	0	0.0	3	\$49	\$240	\$50	\$190	3.9	406
<b>Food Service &amp; Refrigeration Measures</b>			<b>653</b>	<b>0.1</b>	<b>0</b>	<b>\$145</b>	<b>\$3,200</b>	<b>\$0</b>	<b>\$3,200</b>	<b>22.1</b>	<b>658</b>
ECM 8	Replace Refrigeration Equipment	No	653	0.1	0	\$145	\$3,200	\$0	\$3,200	22.1	658
<b>Custom Measures****</b>			<b>-1,004</b>	<b>0.0</b>	<b>11</b>	<b>-\$67</b>	<b>\$3,400</b>	<b>\$0</b>	<b>\$3,400</b>	<b>-50.7</b>	<b>277</b>
ECM 9	Replace Gas Fired Water Heater with Heat Pump Water Heater****	No	-1,004	0.0	11	-\$67	\$3,400	\$0	\$3,400	-50.7	277
<b>TOTALS (COST EFFECTIVE MEASURES)</b>			<b>2,616</b>	<b>0.6</b>	<b>3</b>	<b>\$622</b>	<b>\$1,890</b>	<b>\$340</b>	<b>\$1,550</b>	<b>2.5</b>	<b>2,989</b>
<b>TOTALS (ALL MEASURES)</b>			<b>3,093</b>	<b>1.3</b>	<b>25</b>	<b>\$1,033</b>	<b>\$43,190</b>	<b>\$3,640</b>	<b>\$39,550</b>	<b>38.3</b>	<b>5,996</b>

\* - 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 4.7

# 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

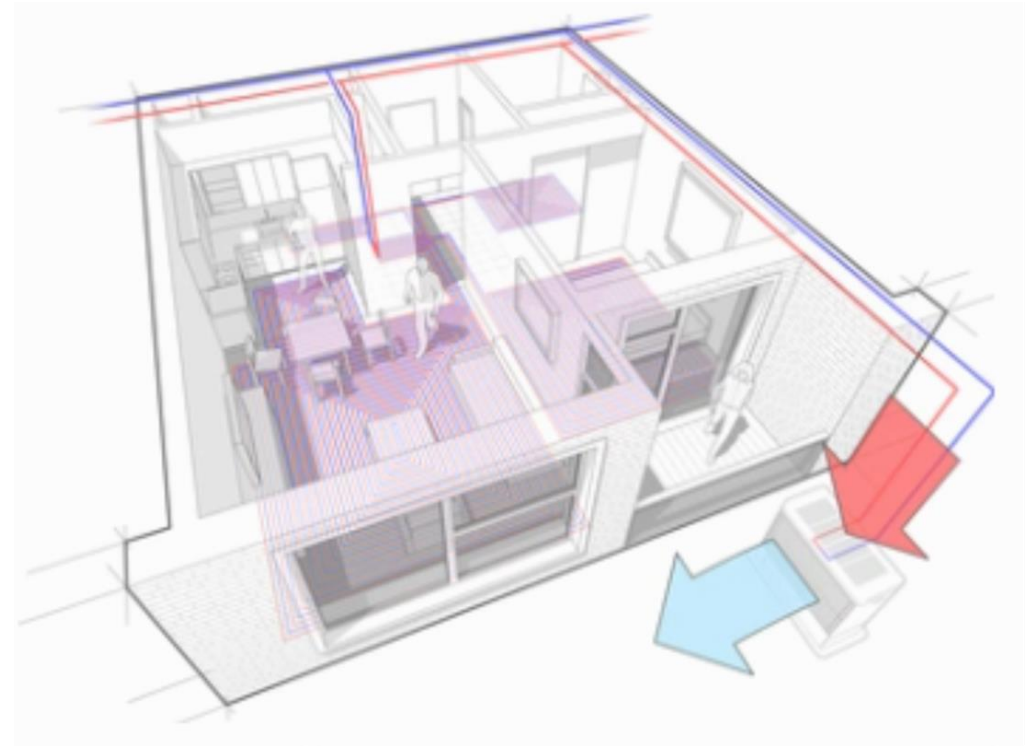


- Leak Detection and Repair
- Toilets and Urinals
- Faucets and Showerheads
- Commercial Kitchen Equipment
- Laundry Equipment
- Cooling Towers
- Steam Boiler System
- Pools and Spas
- Laboratory and Medical Equipment
- Water Metering and Submetering
- Vehicle Washing
- Single Pass Cooling System
- Landscaping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

*See individual reports for specific Water Best Practices by building*

# MEASURES FOR FUTURE CONSIDERATION

- Upgrade to a Heat Pump System





# EV CHARGING STATION POTENTIAL

NJCleanEnergy.com/EV

## Know your EV Charging Stations



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

	Lakewood Board of Fire Commissioners
Potential:	Medium/High



# FINANCING MECHANISM: ESIP

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

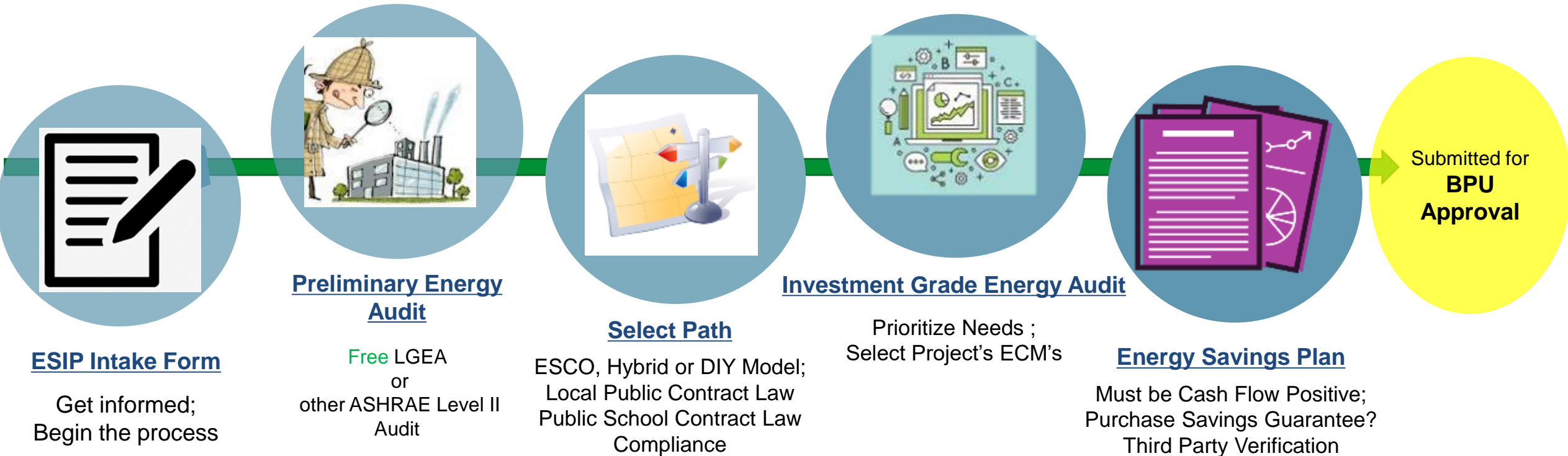
## ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- 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](http://NJCleanEnergy.com/ESIP)

## FOR MORE INFORMATION

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ESIP Coordinator

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c: 609.915.0903

# SUSTAINABLE JERSEY – DIRECT PAY



## Combining NJBPU Incentives with Direct Pay

Direct Pay (Elective Pay), part of Inflation Reduction Act (IRA), allows tax-exempt entities, including municipalities and school districts, to receive tax credits for clean energy projects.

### About Direct Pay

- All eligible projects receive tax credits (not competitive)
- Currently authorized for 10 years
- Projects completed in 2023 are eligible for tax credits until Nov 15  
For local governments filing on a calendar year, fiscal year deadline is May 15

### Eligible Projects Include

- Renewables – solar, geothermal, wind, etc.
- Electric vehicles
- Electric vehicle charging infrastructure (*limited*)
- Combined heat and power; Electric storage

Direct Pay can be used in combination with other funding sources like NJBPU incentives.

#### Example

Lightweight EV	\$24,000
NJBPU Clean Fleet Grant	-\$4,000
Direct Pay Tax Credit	-\$7,500
<b>Total cost to entity</b>	<b>\$12,500</b>

Note: Total incentive can not exceed total project cost.

For more information, visit Sustainable Jersey's [Direct Pay Tax Credits page](#).

Full list of Direct Pay eligible tax credits at <https://www.irs.gov/pub/irs-pdf/p5817a.pdf>

# C&I ENERGY EFFICIENCY PROGRAMS

NJCleanEnergy.com

LOCAL  
GOVERNMENT  
CUSTOMERS

COMMERCIAL &  
INSTITUTIONAL  
CUSTOMERS

LARGE  
ENERGY  
CUSTOMERS

## EXISTING BUILDINGS

### MEASUREMENT & AUDITS

FREE Energy Audits



### RETROFITS

Prescriptive &  
Custom Rebates

Direct Install

Engineered Solutions

And more from  
your local utility!



Incentives up  
to \$4 million  
for eligible projects



## NEW CONSTRUCTION

Prescriptive & Custom  
Rebates for New  
Construction and  
Gut Rehabs

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



## DISTRIBUTED ENERGY RESOURCES

Combined Heat & Power  
and Fuel Cell Installation  
Incentives

Microgrid Development

Battery Storage

Muni EV Fleets



Key:  
Programs run by investor-owned utility companies



Programs run by NJCEP



# UTILITY RUN ENERGY EFFICIENCY PROGRAMS\*

NJCleanEnergy.com/Transition

## PRESCRIPTIVE & CUSTOM REBATES:

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

## DIRECT INSTALL:

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

## ENERGY MANAGEMENT :

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

## ENGINEERED SOLUTIONS:

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



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

# UTILITY RUN ENERGY EFFICIENCY PROGRAMS

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THANK YOU

