



LGEA Presentation

NJ DEP – Monmouth Battlefield State Park

March 28, 2024

New Jersey's Clean Energy Program

Lighting the way to New Jersey's Clean Energy Future

INTRODUCTIONS

- DEP Monmouth Battlefield SP
 - Jeffrey MacMullen
 - Laura Petrangeli
 - Inga Gabliks
 - Ken Genieczko
- NJ Clean Energy Program
 - Sarah Walters LGEA Project Manager
 - Moussa Traore LGEA Technical Manager
 - Juno Romanick LGEA Project Auditor

- NJBPU
 - Casey Shaw
 - Sara Bluhm Gibson

- Utility Energy Efficiency Programs
 - Sirajuddin Shaikh JCP&L
 - Andrew Doss JCP&L



Agenda

- The audit process overview
- Energy use & existing conditions
- Review of Energy Conservation Measures (ECMs) identified & other recommendations
- Energy Savings Improvement Program (ESIP)
- Energy Efficiency Incentive Programs
- Questions regarding the draft audit report
- Next steps for State of NJ DEP Monmouth Battlefield State Park



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
- Process Equipment

Utility Consumption:

- Electric Consumption and Costs
- Fuel Oil No. 2 & Propane Consumption and Costs
- Water Consumption and Costs

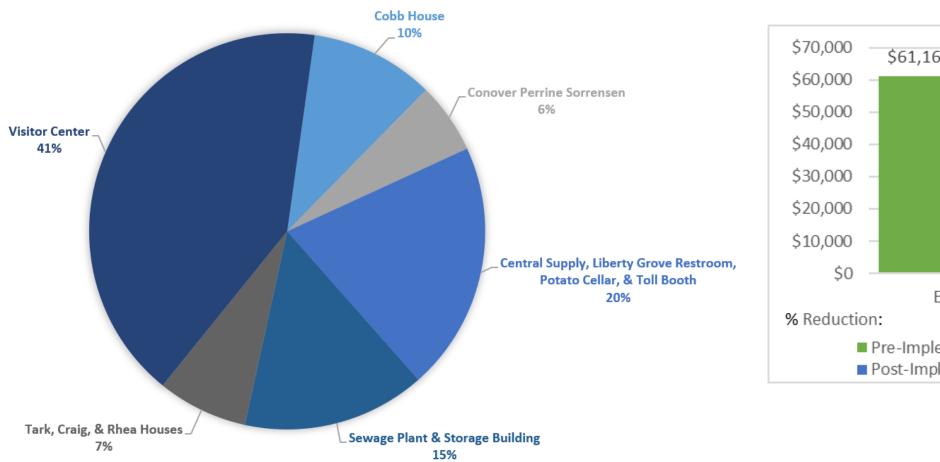
Sites Visited/Analyzed

- Visitor Center
- Sewage Plant
- Storage Building
- Toll Booths
- Liberty Grove Bathrooms
- Central Supply (Barn & Canopy)
- Tark House
- Craig House
- Cobb House
- Rhea Applegate House
- Potato Cellar

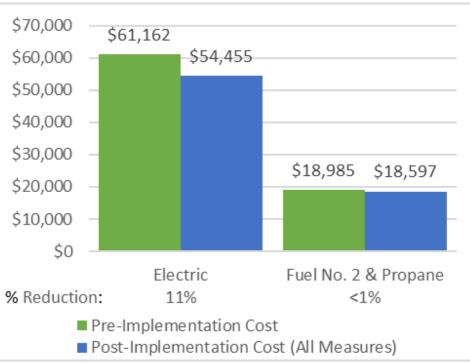


UTILITY BREAKOUT

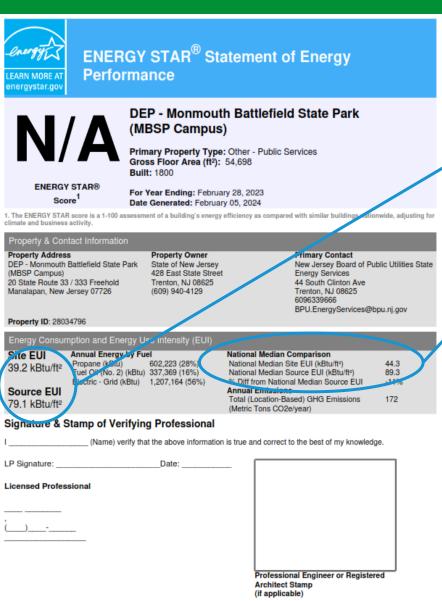
Percent of Total Annual Energy Costs



Pre & Post Implementation Cost







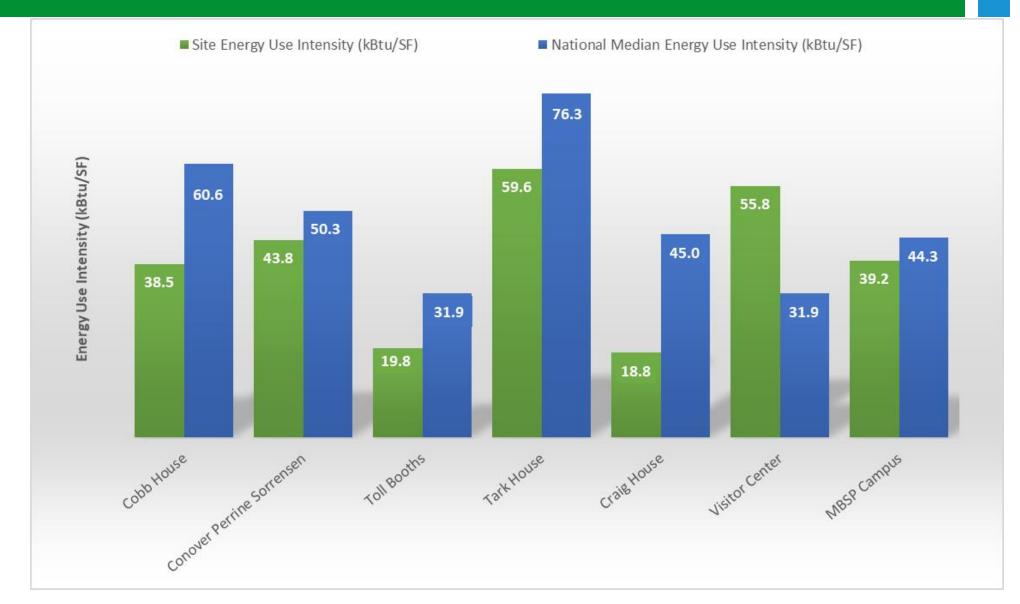
Site EUI	
39.2 kBtu/ft ²	
Source EUI	
79.1 kBtu/ft ²	
	I
National Med	lian Comparison
Notional Mad	lion Cito ELU /kDhu/#2

Site Name	ENERGY STAR [®] Score
All Buildings/Campus	N/A

National Median Comparison	
National Median Site EUI (kBtu/ft ²)	44.3
National Median Source EUI (kBtu/ft ²)	89.3
% Diff from National Median Source EUI	-11%

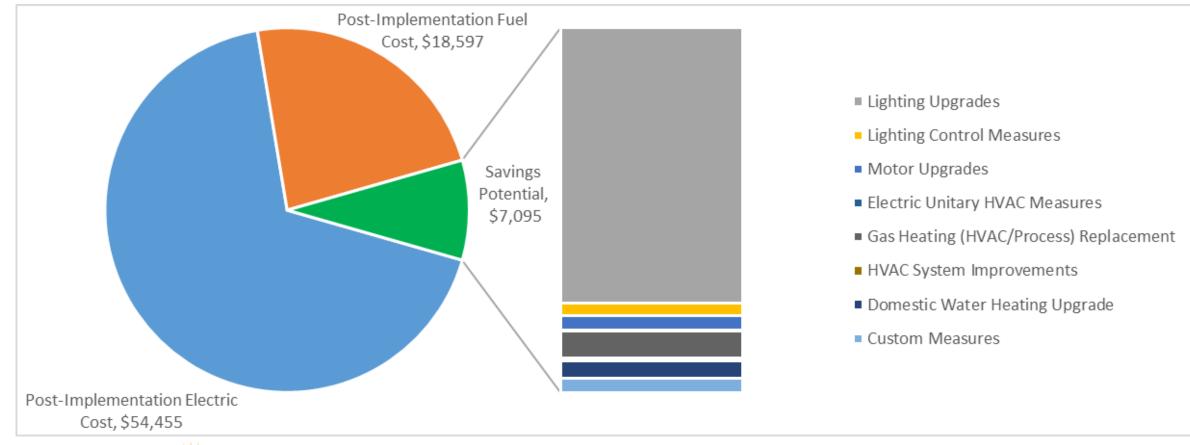
ENERGY STAR[®] scores are percentile ranking from 1 (least efficient) to 100 (most efficient). It compares your building's energy performance to similar buildings nationwide.

Benchmarking



ALL OPPORTUNITIES

Savings Potential





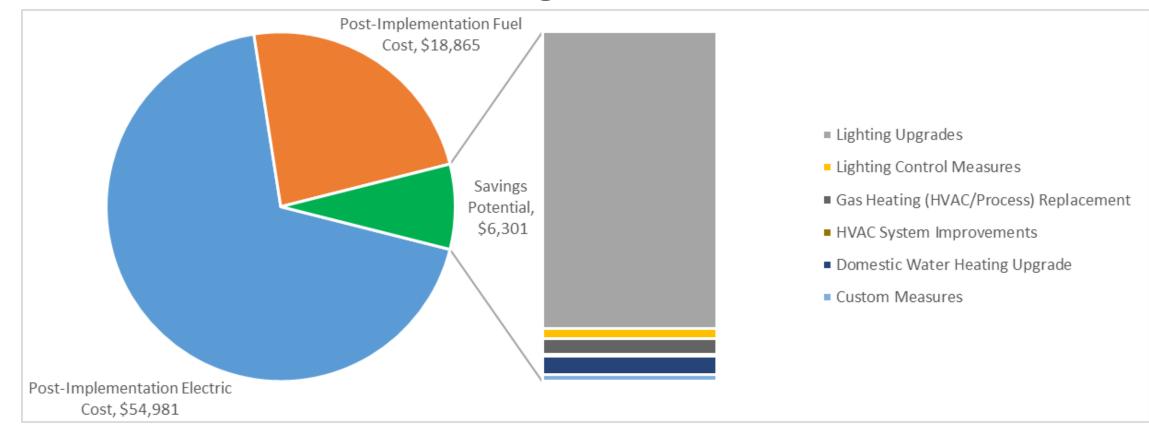
ALL OPPORTUNITIES

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting	Upgrades	32,344	16.2	-5.3	\$5,356	\$25,160	\$3,560	\$21,600	4.0	31,761
ECM 1	Install LED Fixtures	293	0.0	0.0	\$52	\$780	\$150	\$630	12.2	295
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	10,940	6.5	-2.7	\$1,801	\$11,430	\$1,800	\$9 <i>,</i> 630	5.3	10,598
ECM 3	Retrofit Fixtures with LED Lamps	21,111	9.6	-2.6	\$3 <i>,</i> 503	\$12,950	\$1,610	\$11,340	3.2	20,869
Lighting	Control Measures	1,465	0.5	-0.4	\$241	\$6,310	\$1,020	\$5,290	21.9	1,414
ECM 4	Install Occupancy Sensor Lighting Controls	1,412	0.5	-0.4	\$233	\$5 <i>,</i> 850	\$880	\$4,970	21.4	1,364
ECM 5	Install High/Low Lighting Controls	53	0.0	0.0	\$9	\$460	\$140	\$320	37.2	50
Motor U	pgrades	1,716	0.5	0.0	\$293	\$7,200	\$0	\$7,200	24.6	1,728
ECM 6	Premium Efficiency Motors	1,716	0.5	0.0	\$293	\$7,200	\$0	\$7,200	24.6	1,728
Unitary	HVAC Measures	120	0.2	0.0	\$21	\$1,100	\$0	\$1,100	52.1	121
ECM 7	Install High Efficiency Air Conditioning Units	120	0.2	0.0	\$21	\$1,100	\$0	\$1,100	52.1	121
Gas Hea	ting (HVAC/Process) Replacement	0	0.0	24.8	\$521	\$13,600	\$900	\$12,700	24.4	3,769
ECM 8	Install High Efficiency Hot Water Boilers	0	0.0	13.5	\$237	\$10,200	\$400	\$9,800	41.4	1,906
ECM 9	Install High Efficiency Furnaces	0	0.0	11.4	\$284	\$3,400	\$500	\$2,900	10.2	1,863
HVAC Sy	stem Improvements	342	0.0	0.0	\$59	\$1,660	\$280	\$1,380	23.3	344
ECM 10	Install Pipe Insulation	342	0.0	0.0	\$59	\$1,660	\$280	\$1,380	23.3	344
Domesti	c Water Heating Upgrade	1,938	0.0	0.0	\$332	\$200	\$50	\$150	0.5	1,952
ECM 11	Install Low-Flow DHW Devices	1,938	0.0	0.0	\$332	\$200	\$50	\$150	0.5	1,952
Custom	Measures	1,657	0.0	0.0	\$272	\$6,900	\$0	\$6,900	25.4	1,669
ECM 12	Replace Electric Water Heater with Heat Pump Water Heater	1,657	0.0	0.0	\$272	\$6,900	\$0	\$6 <i>,</i> 900	25.4	1,669
	TOTALS (ALL MEASURES)	39,581	17.4	19.2	\$7,095	\$62,130	\$5,810	\$56,320	7.9	42,757

* - 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.

COST EFFECTIVE OPPORTUNITIES

Savings Potential





COST EFFECTIVE OPPORTUNITIES

#	Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)		CO ₂ e Emissions Reduction (lbs)
Lighting	Upgrades	32,338	16.1	-5.3	\$5,354	\$25,020	\$3,540	\$21,480	4.0	31,756
ECM 1	Install LED Fixtures	293	0.0	0.0	\$52	\$780	\$150	\$630	12.2	295
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	10,935	6.5	-2.7	\$1,800	\$11,290	\$1,780	\$9,510	5.3	10,593
ECM 3	Retrofit Fixtures with LED Lamps	21,111	9.6	-2.6	\$3,503	\$12,950	\$1,610	\$11,340	3.2	20,869
Lighting	Control Measures	1,098	0.4	-0.2	\$182	\$3,600	\$540	\$3,060	16.8	1,067
ECM 4	Install Occupancy Sensor Lighting Controls	1,098	0.4	-0.2	\$182	\$3 <i>,</i> 600	\$540	\$3 <i>,</i> 060	16.8	1,067
Gas Hea	ting (HVAC/Process) Replacement	0	0.0	11.4	\$284	\$3,400	\$500	\$2,900	10.2	1,863
ECM 9	Install High Efficiency Furnaces	0	0.0	11.4	\$284	\$3 <i>,</i> 400	\$500	\$2 <i>,</i> 900	10.2	1,863
HVAC Sy	vstem Improvements	128	0.0	0.0	\$23	\$240	\$40	\$200	8.9	129
ECM 10	Install Pipe Insulation	128	0.0	0.0	\$23	\$240	\$40	\$200	8.9	129
Domest	ic Water Heating Upgrade	1,938	0.0	0.0	\$332	\$200	\$50	\$150	0.5	1,952
ECM 11	Install Low-Flow DHW Devices	1,938	0.0	0.0	\$332	\$200	\$50	\$150	0.5	1,952
Custom	Measures	739	0.0	0.0	\$125	\$2,100	\$0	\$2,100	16.8	744
ECM 12	Replace Electric Water Heater with Heat Pump Water Heater	739	0.0	0.0	\$125	\$2,100	\$0	\$2,100	16.8	744
	TOTALS	36,241	16.5	5.9	\$6,301	\$34,560	\$4,670	\$29,890	4.7	37,511

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

VISITOR CENTER

#	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		14,997	5.9	0	\$2,513	\$9,060	\$1,230	\$7,830	3.1	15,102
ECM 1	Retrofit Fixtures with LED Lamps	Yes	14,997	5.9	0	\$2,513	\$9,060	\$1,230	\$7,830	3.1	15,102
Lighting	Control Measures		586	0.2	0	\$98	\$1,860	\$280	\$1,580	16.1	591
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	586	0.2	0	\$98	\$1,860	\$280	\$1,580	16.1	591
Motor U	pgrades		1,288	0.4	0	\$216	\$4,400	\$0	\$4,400	20.4	1,297
ECM 3	Premium Efficiency Motors	No	1,288	0.4	0	\$216	\$4,400	\$0	\$4,400	20.4	1,297
Domesti	c Water Heating Upgrade		630	0.0	0	\$106	\$60	\$30	\$30	0.3	634
ECM 4	Install Low-Flow DHW Devices	Yes	630	0.0	0	\$106	\$60	\$30	\$30	0.3	634
	TOTALS (COST EFFECTIVE MEASURES)		16,213	6.1	0	\$2,717	\$10,980	\$1,540	\$9,440	3.5	16,326
	TOTALS (ALL MEASURES)		17,501	6.5	0	\$2,933	\$15,380	\$1,540	\$13,840	4.7	17,623
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* - 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.



SEWAGE PLANT & STORAGE BUILDING

#	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 (\$)		CO ₂ e Emissions Reduction (lbs)
Lighting	Upgrades		4,988	3.3	0	\$863	\$5,380	\$870	\$4,510	5.2	5,022
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	4,820	3.3	0	\$834	\$5 <i>,</i> 080	\$840	\$4,240	5.1	4,854
ECM 2	Retrofit Fixtures with LED Lamps	Yes	168	0.0	0	\$29	\$300	\$30	\$270	9.3	169
Motor L	lpgrades		333	0.1	0	\$58	\$1,600	\$0	\$1,600	27.8	335
ECM 3	Premium Efficiency Motors	No	333	0.1	0	\$58	\$1,600	\$0	\$1,600	27.8	335
	TOTALS (COST EFFECTIVE MEASURES)		4,988	3.3	0	\$863	\$5,380	\$870	\$4,510	5.2	5,022
	TOTALS (ALL MEASURES)		5,321	3.4	0	\$921	\$6,980	\$870	\$6,110	6.6	5,358

* - 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.



CENTRAL SUPPLY, TOLL BOOTHS, LIBERTY GROVE BATHROOMS, POTATO CELLAR

#	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		5,907	4.1	-3	\$976	\$7,480	\$1,070	\$6,410	6.6	5,532
ECM 1	Install LED Fixtures	Yes	293	0.0	0	\$51	\$780	\$150	\$630	12.2	295
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	3,415	2.0	-2	\$562	\$4,410	\$670	\$3,740	6.7	3,182
ECM 3	Retrofit Fixtures with LED Lamps	Yes	2,199	2.1	-1	\$363	\$2,290	\$250	\$2,040	5.6	2,055
Lighting	Control Measures		525	0.2	0	\$86	\$1,970	\$330	\$1,640	19.0	489
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	511	0.2	0	\$84	\$1,740	\$260	\$1,480	17.6	476
ECM 5	Install High/Low Lighting Controls	No	14	0.0	0	\$2	\$230	\$70	\$160	69.7	13
Unitary	HVAC Measures		120	0.2	0	\$21	\$1,100	\$0	\$1,100	52.1	121
ECM 6	Install High Efficiency Air Conditioning Units	No	120	0.2	0	\$21	\$1,100	\$0	\$1,100	52.1	121
HVAC S	ystem Improvements		128	0.0	0	\$23	\$240	\$40	\$200	8.9	129
ECM 7	Install Pipe Insulation	Yes	128	0.0	0	\$23	\$240	\$40	\$200	8.9	129
Domest	ic Water Heating Upgrade		646	0.0	0	\$114	\$50	\$20	\$30	0.3	651
ECM 8	Install Low-Flow DHW Devices	Yes	646	0.0	0	\$114	\$50	\$20	\$30	0.3	651
	TOTALS (COST EFFECTIVE MEASURES)		7,192	4.3	-3	\$1,197	\$9,510	\$1,390	\$8,120	6.8	6,788
	TOTALS (ALL MEASURES)		7,326	4.4	-3	\$1,220	\$10,840	\$1,460	\$9,380	7.7	6,922

* - 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.

TARK, CRAIG, RHEA APPLEGATE HOUSES

#	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		358	0.5	0	\$69	\$460	\$30	\$430	6.3	333
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	No	6	0.1	0	\$1	\$140	\$20	\$120	106.2	5
ECM 2	Retrofit Fixtures with LED Lamps	Yes	352	0.4	0	\$67	\$320	\$10	\$310	4.6	328
Lighting	Control Measures		17	0.0	0	\$3	\$270	\$40	\$230	71.7	16
ECM 3	Install Occupancy Sensor Lighting Controls	No	17	0.0	0	\$3	\$270	\$40	\$230	71.7	16
Motor U	pgrades		95	0.0	0	\$19	\$1,200	\$0	\$1,200	62.1	96
ECM 4	Premium Efficiency Motors	No	95	0.0	0	\$19	\$1,200	\$0	\$1,200	62.1	96
Gas Hea	ting (HVAC/Process) Replacement		0	0.0	11	\$284	\$3,400	\$500	\$2,900	10.2	1,863
ECM 5	Install High Efficiency Furnaces	Yes	0	0.0	11	\$284	\$3 <i>,</i> 400	\$500	\$2,900	10.2	1,863
HVAC Sy	stem Improvements		101	0.0	0	\$21	\$700	\$120	\$580	28.3	102
ECM 6	Install Pipe Insulation	No	101	0.0	0	\$21	\$700	\$120	\$580	28.3	102
Domesti	c Water Heating Upgrade		188	0.0	0	\$38	\$30	\$0	\$30	0.8	189
ECM 7	Install Low-Flow DHW Devices	Yes	188	0.0	0	\$38	\$30	\$0	\$30	0.8	189
Custom	Measures		243	0.0	0	\$49	\$2,400	\$0	\$2,400	49.0	245
ECM 8	Replace Electric Water Heater with Heat Pump Water Heater	No	243	0.0	0	\$49	\$2 <i>,</i> 400	\$0	\$2,400	49.0	245
	TOTALS (COST EFFECTIVE MEASURES)		540	0.4	11	\$390	\$3,750	\$510	\$3,240	8.3	2,380
	TOTALS (ALL MEASURES)		1,002	0.5	11	\$483	\$8,460	\$690	\$7,770	16.1	2,844
* - All incer	tives presented in this table are included as placeholders for planning purposes and	are based on pro	eviously run s	state rebate p	programs. Co	ontact your utilit	y provider for de	tails on curren	t programs.	16)

COBB HOUSE

#	Energy Conservation Measure	Cost Effective?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		Annual Energy Cost Savings (\$)	Estimated M&L Cost (\$)	Estimated Incentive (\$)*	Estimated Net M&L Cost (\$)	Payback	-
Lighting	Upgrades		3,932	1.7	-2	\$638	\$1,980	\$270	\$1,710	2.7	3,723
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,349	0.7	-1	\$219	\$1,240	\$190	\$1,050	4.8	1,277
ECM 2	Retrofit Fixtures with LED Lamps	Yes	2,583	0.9	-1	\$419	\$740	\$80	\$660	1.6	2,445
Lighting	Control Measures		284	0.1	0	\$46	\$1,280	\$230	\$1,050	22.8	268
ECM 3	Install Occupancy Sensor Lighting Controls	No	245	0.1	0	\$40	\$1,050	\$160	\$890	22.4	232
ECM 4	Install High/Low Lighting Controls	No	39	0.0	0	\$6	\$230	\$70	\$160	25.4	37
Gas Hea	ating (HVAC/Process) Replacement		0	0.0	13	\$237	\$10,200	\$400	\$9,800	41.4	1,906
ECM 5	Install High Efficiency Hot Water Boilers	No	0	0.0	13	\$237	\$10,200	\$400	\$9,800	41.4	1,906
Domesti	ic Water Heating Upgrade		237	0.0	0	\$40	\$30	\$0	\$30	0.7	239
ECM 6	Install Low-Flow DHW Devices	Yes	237	0.0	0	\$40	\$30	\$0	\$30	0.7	239
Custom	Measures		739	0.0	0	\$125	\$2,100	\$0	\$2,100	16.8	744
ECM 7	Replace Electric Water Heater with Heat Pump Water Heater	Yes	739	0.0	0	\$125	\$2,100	\$0	\$2,100	16.8	744
	TOTALS (COST EFFECTIVE MEASURES)		4,909	1.7	-2	\$803	\$4,110	\$270	\$3,840	4.8	4,706
	TOTALS (ALL MEASURES)		5,192	1.8	12	\$1,086	\$15,590	\$900	\$14,690	13.5	6,880

* - 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).

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CONOVER/PERRINE/SORRENSEN HOUSE

#	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		2,162	0.8	-1	\$296	\$800	\$90	\$710	2.4	2,049
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,350	0.4	-1	\$185	\$560	\$80	\$480	2.6	1,279
ECM 2	Retrofit Fixtures with LED Lamps	Yes	812	0.4	0	\$111	\$240	\$10	\$230	2.1	770
Lighting	Control Measures		53	0.0	0	\$7	\$930	\$140	\$790	109.5	50
ECM 3	Install Occupancy Sensor Lighting Controls	No	53	0.0	0	\$7	\$930	\$140	\$790	109.5	50
HVAC Sy	stem Improvements		113	0.0	0	\$16	\$720	\$120	\$600	36.9	113
ECM 4	Install Pipe Insulation	No	113	0.0	0	\$16	\$720	\$120	\$600	36.9	113
Domesti	c Water Heating Upgrade		237	0.0	0	\$34	\$30	\$0	\$30	0.9	239
ECM 5	Install Low-Flow DHW Devices	Yes	237	0.0	0	\$34	\$30	\$0	\$30	0.9	239
Custom	Measures		675	0.0	0	\$98	\$2,400	\$0	\$2,400	24.5	680
ECM 6	Replace Electric Water Heater with Heat Pump Water Heater	No	675	0.0	0	\$98	\$2,400	\$0	\$2,400	24.5	680
	TOTALS (COST EFFECTIVE MEASURES)		2,399	0.8	-1	\$330	\$830	\$90	\$740	2.2	2,288
	TOTALS (ALL MEASURES)		3,240	0.9	-1	\$452	\$4,880	\$350	\$4,530	10.0	3,131

* - 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.



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 Towners
- 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



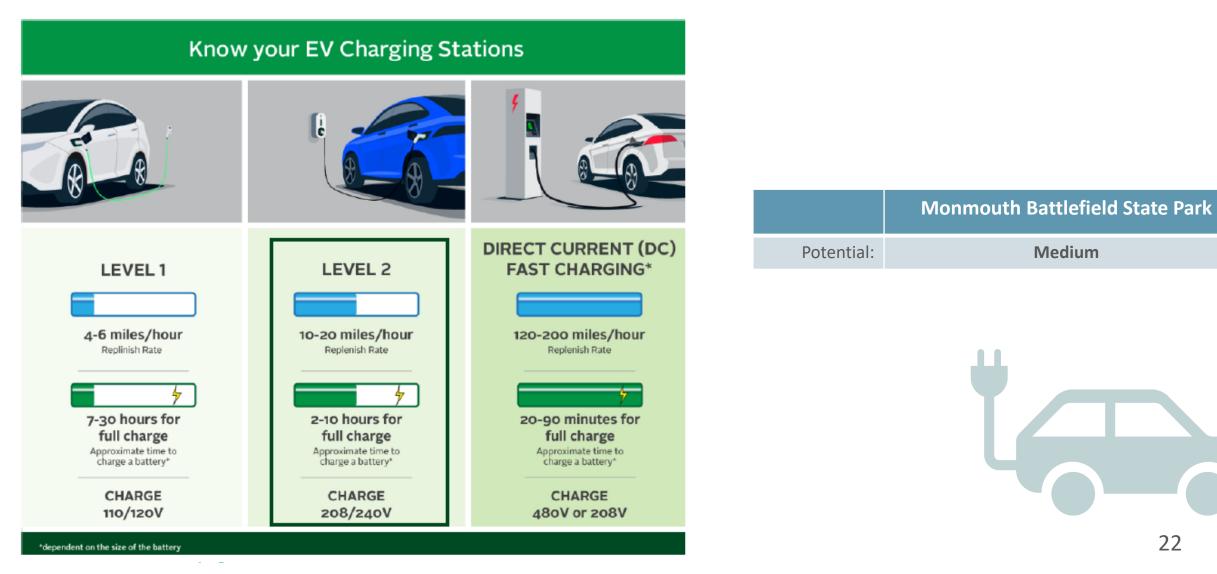
MEASURES FOR FUTURE CONSIDERATION

• Upgrade to a Heat Pump System



EV CHARGING STATION POTENTIAL

NJCleanEnergy.com/EV



SOLAR ENERGY GENERATION POTENTIAL

NJCleanEnergy.com/renewable-energy

	Visitor Center
Potential:	HIGH
System Potential: (kW)	69
Electric Generation: (kWh per year)	51,919
Displaced Cost: (per year)	\$8,700



FINANCING MECHANISM: ESIP

NJCleanEnergy.com/ESIP

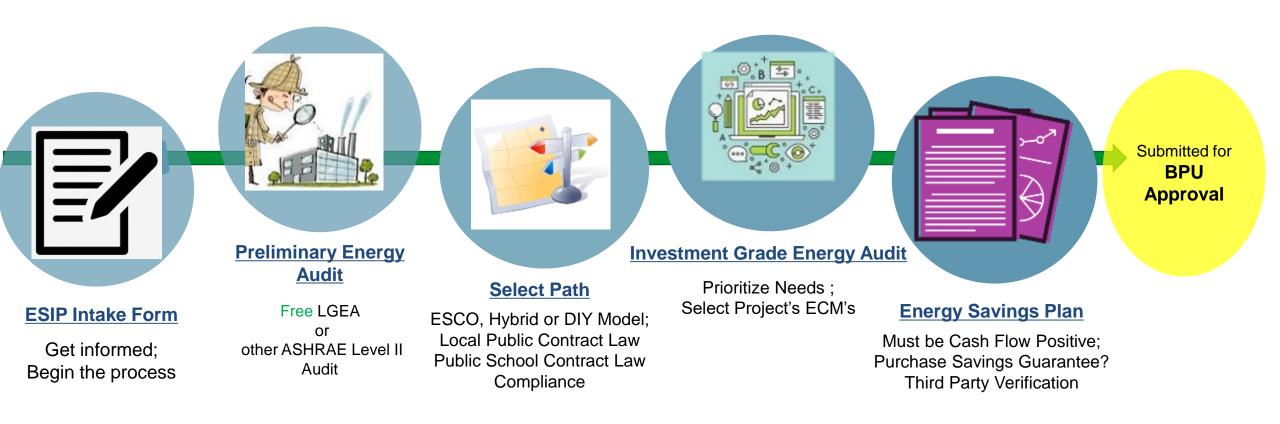
ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- 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

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STATE FACILITIES INITIATIVE (SFI)

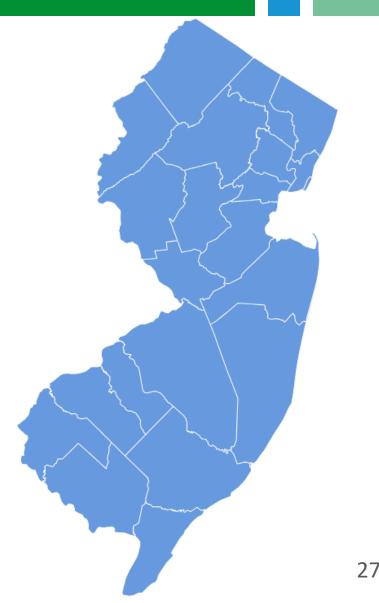
The State Facilities Initiative (SFI)

This program is for State-owned facilities.

The program identifies and implements Energy Efficiency projects in Stateowned facilities or State-sponsored projects with the objective of producing energy and cost savings. The funding provided to the SFI is directly in line with EMP Goals 3.3.5 and 4.1.1.

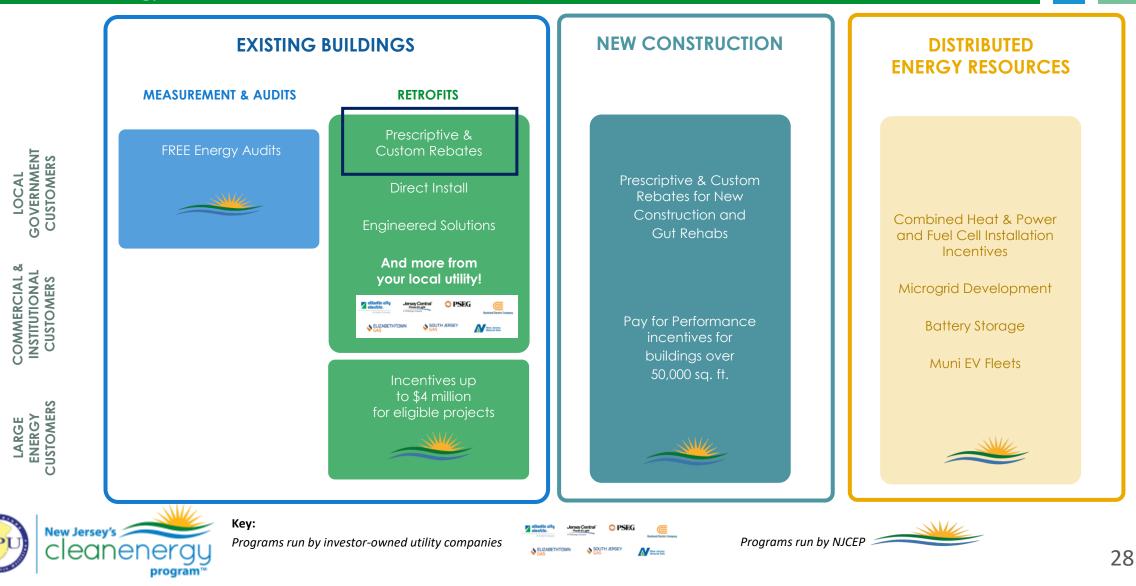
EMP Goal 3.3.5 seeks to "[i]mprove energy efficiency in, and retrofit state buildings to, a high performance standard."

EMP Goal 4.1.1 addresses electrifying State facilities.



C&I ENERGY EFFICIENCY PROGRAMS

NJCleanEnergy.com



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:

ENERGY MANAGEMENT :

- 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
- 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

JCP&L

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LARGE ENERGY USERS

NJCleanEnergy.com/LEUP

- Large C&I entities who have paid a minimum of \$5,000,000 in the WHO previous 12 months of utility bills
- The average peak demand of all facilities submitted \geq 400kW SIZE TO and/or 4,000 DTh QUALIFY
- ABOUT • Encourages large C&I utility customers to self-invest in energy efficiency, combined heat & power, and fuel cell projects
 - Must have ability to "bank" funds for up to two fiscal years

INCENTIVE Maximum incentive per entity is the lesser of: CAP

- •\$4 million,
- •75% of total project cost, or
- 90% of NJCEP contribution or annual energy saving caps (\$0.33/kWh and \$3.75/therm)



LARGE ENERGY USERS

NJCleanEnergy.com/LEUP





FOR MORE INFORMATION

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