

New Jersey's Clean Energy Program

LGEA Exit Meeting for:
Mystic Island Volunteer Fire Co.

Smruti Srinivasan, TRC

June 5th, 2018

Meeting Setup



1) Dial the following:

1-877-304-9323

2) When prompted, enter the code below:

5391398#

Introductions

Mystic Island Volunteer Fire Co.

- Jeff Petrauskus – Fire Company President

NJ Clean Energy Program – TRC

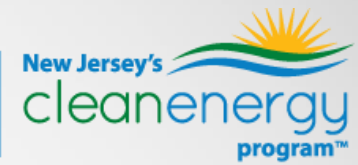
- Jim Friedl – Outreach Manager
- Smruti Srinivasan – Auditor

Agenda



- Overview of LGEA process (application to deliverable)
- Energy use & existing conditions
- Review of **E**nergy **C**onservation **M**easures (ECMs) identified
- Questions or concerns regarding the draft audit report
- Overview of NJCEP equipment incentives
- Next steps for Mystic Island Volunteer Fire Co.

Process to Draft Report



- Application submitted to NJCEP
- Site Visit Performed
- Utility Analysis
- Baseline Condition
- Analysis
- Recommendations
- Report

Overview of Systems, Baseline & Existing Conditions:

- Building Envelope
- Lighting System
- HVAC and Mechanical Systems

Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs
- Benchmarking

Mystic Island Volunteer Fire Co.



Energy Conservation Measure		Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades			12,666	7.3	0.0	\$2,461.42	\$15,869.29	\$1,165.00	\$14,704.29	6.0	12,755
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	6,371	3.7	0.0	\$1,238.18	\$8,837.83	\$510.00	\$8,327.83	6.7	6,416
ECM 2	Retrofit Fixtures with LED Lamps	Yes	6,295	3.6	0.0	\$1,223.24	\$7,031.45	\$655.00	\$6,376.45	5.2	6,339
Lighting Control Measures			1,180	0.7	0.0	\$229.22	\$2,412.00	\$390.00	\$2,022.00	8.8	1,188
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	1,126	0.6	0.0	\$218.86	\$2,162.00	\$255.00	\$1,907.00	8.7	1,134
ECM 4	Install Daylight Dimming Controls	Yes	53	0.0	0.0	\$10.36	\$250.00	\$135.00	\$115.00	11.1	54
Motor Upgrades			499	0.1	0.0	\$97.06	\$536.42	\$0.00	\$536.42	5.5	503
ECM 5	Premium Efficiency Motors	Yes	499	0.1	0.0	\$97.06	\$536.42	\$0.00	\$536.42	5.5	503
Electric Unitary HVAC Measures			1,600	1.5	0.0	\$310.93	\$13,465.98	\$828.00	\$12,637.98	40.6	1,611
	Install High Efficiency Electric AC	No	1,600	1.5	0.0	\$310.93	\$13,465.98	\$828.00	\$12,637.98	40.6	1,611
Gas Heating (HVAC/Process) Replacement			0	0.0	36.6	\$371.98	\$13,578.88	\$2,200.00	\$11,378.88	30.6	4,281
	Install High Efficiency Hot Water Boilers	No	0	0.0	11.8	\$120.08	\$8,141.12	\$1,000.00	\$7,141.12	59.5	1,382
ECM 6	Install High Efficiency Furnaces	Yes	0	0.0	24.8	\$251.90	\$5,437.76	\$1,200.00	\$4,237.76	16.8	2,899
Domestic Water Heating Upgrade			0	0.0	5.4	\$54.77	\$4,456.17	\$150.00	\$4,306.17	78.6	630
	Install High Efficiency Gas Water Heater	No	0	0.0	4.9	\$49.56	\$4,449.00	\$150.00	\$4,299.00	86.7	570
ECM 7	Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	0.5	\$5.21	\$7.17	\$0.00	\$7.17	1.4	60
Food Service Equipment & Refrigeration Measures			554	0.1	91.4	\$1,037.71	\$19,407.01	\$975.00	\$18,432.01	17.8	11,261
ECM 8	Food Service Equipment Replacement	Yes	0	0.0	91.4	\$930.05	\$16,598.81	\$750.00	\$15,848.81	17.0	10,703
	Replace Refrigeration Equipment	No	554	0.1	0.0	\$107.66	\$2,808.20	\$225.00	\$2,583.20	24.0	558
TOTAL OF ALL EVALUATED ECMS			16,499	9.7	133.4	\$4,563.08	\$69,725.75	\$5,708.00	\$64,017.75	14.0	32,228
TOTAL OF ALL RECOMMENDED ECMS			14,345	8	117	\$ 3,974.85	\$ 40,861.45	\$ 3,505.00	\$ 37,356.45	9.4	28,107
TOTAL OF ALL NON-RECOMMENDED ECMS			2,154	2	17	\$ 588.23	\$ 28,864.30	\$ 2,203.00	\$ 26,661.30	45.3	4,121

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

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

Some Energy Efficient Practices



- *Perform Proper Lighting Maintenance*
- *Practice Proper Use of Thermostat Schedules and Temperature Resets*
- *Clean Evaporator/Condenser Coils on AC Systems*
- *Perform Proper Furnace Maintenance*
- *Perform Proper Water Heater Maintenance*
- *Water Conservation*

PROGRAM PORTFOLIO



ELIGIBLE SECTORS

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

PROGRAMS

Equipment Rebates:

- Retrofit – Existing Buildings
- New Construction
- Direct Install – Small Business
- Large Energy Users

Whole Buildings:

- Pay for Performance Existing Buildings
- Pay for Performance New Construction

Energy Generation:

- Combined Heat and Power (CHP) and Fuel Cells

Recommended NJCEP Incentives



➤ Direct Install

Hutchinson Mechanical Services

Ed Hutchinson

856-429-5828 x215

edhutchinson@hutchbiz.com

➤ SmartStart Buildings (i.e Retrofit – Existing Buildings)

Direct Install: Overview

- Turn-key retrofit program to replace outdated and inefficient equipment, including lighting, HVAC, refrigeration, etc.
- Open to Small to Mid-Sized Commercial and Industrial facilities with a peak electric demand ≤ 200 kW
- Provides incentives of up to 70% of the installed cost
- Incentives are paid directly to the contractor
 - Customer only pays remaining 30% of installed cost
 - \$125,000 project cap
 - \$250,000 per entity cap
- Participating contractors provide support and process all paperwork
- Fast turnaround time: Average length of time for job completion (4-6 months)

SmartStart Prescriptive: Overview



- Two types of incentives for high efficiency equipment installation:
 - Prescriptive
 - Custom
- Includes New Construction, Rehab and Retrofit projects
- Project pre-approval required for certain equipment
- Incentives up to \$500,000 per electric account & \$500,000 per natural gas account
- Project Categories:
 - New Construction
 - Renovation
 - Remodeling
 - Equipment Replacement
- Specific incentives and individual applications for Lighting, HVAC, VFDs, Refrigeration, Controls and more!

Direct Install – Financing Option



- Eligible NJNG customers can finance the remaining 30 percent balance at 0% APR through the “SAVEGREEN Project® On-Bill Repayment Program” (OBRP) for 36 months.
- For measures that may not qualify for Direct Install, NJNG also offers financing options for SmartStart that will cover up to \$130,000 per year.



Direct Install – Financing Option



- Questions? Contact Jerry at the following:

Jerry Ryan

Energy Efficiency Operations Manager

New Jersey Natural Gas

732-433-4362 (cell)

732 378 4920 (office)

jryan@njng.com



Questions

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FOR MORE INFORMATION

Visit NJCleanEnergy.com

Call (866) NJSMART

Jim Friedl

Outreach Manager

732-855-6543

jfriedl@trcsolutions.com