

New Jersey's Clean Energy Program

LGEA Exit Meeting for:
Franklin Borough Board of Education

TRC Energy Services

September 28, 2018

Introductions



- *Franklin Borough Board of Education*
 - JR Giacchi – Superintendent
 - Barbara Decker – Business Administrator

- *NJ Clean Energy Program*
 - Brian DeLuca, CEM – TRC Program Manager
 - Moussa Traore – TRC Auditor
 - Sarah Walters – TRC Account Manager
 - Mike Thulen – ESIP Coordinator

Agenda



- The audit process overview
- 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 Franklin Borough Board of Education

LGEA Process



- Application Approval
- Scheduling Call
- Audit
- Benchmarking & Analysis
- Draft Report
- Exit Meeting Presentation
- Final Report

Site Visit and Utility Analysis



Overview of Systems, Baseline & Existing Conditions:

- Building Envelope
- Lighting System
- HVAC and Mechanical Systems

Sites Visited/Analyzed

- Franklin Borough School
- Business Office Trailer

Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs
- On-Site Generation Solar PV

Benchmarking



Franklin Elementary School

ENERGY STAR® Statement of Energy Performance

62
 ENERGY STAR® Score¹

Franklin Elementary School
 Primary Property Type: K-12 School
 Gross Floor Area (ft²): 115,483
 Built: 1915
 For Year Ending: October 31, 2017
 Date Generated: June 06, 2018

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 Franklin Elementary School 50 Washington Avenue Franklin, Nevada 07416	Property Owner Franklin Borough Board of Education 50 Washington Avenue Franklin, NV 07416 973-827-9775	Primary Contact William Sabo 50 Washington Avenue Franklin, NV 07416 973-827-9775 bsabo@fboe.org
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Property ID: 6372489

Energy Consumption and Energy Use Intensity (EUI)

Site EUI 65.3 kBtu/ft ²	Annual Energy by Fuel	National Median Comparison	
	Electric - Grid (kBtu) 1,510,147 (20%)	National Median Site EUI (kBtu/ft ²)	72.6
	Electric - Solar (kBtu) 593,283 (8%)	National Median Source EUI (kBtu/ft ²)	104.2
	Fuel Oil (No. 2) (kBtu) 4,890,720 (65%)	% Diff from National Median Source EUI	-10%
	Propane (kBtu) 542,331 (7%)		
Source EUI 93.7 kBtu/ft ²		Annual Emissions	
		Greenhouse Gas Emissions (Metric Tons CO ₂ e/year)	565

Signature & Stamp of Verifying Professional
 I _____ (Name) verify that the above information is true and correct to the best of my knowledge.
 Signature: _____ Date: _____
 Licensed Professional

 Professional Engineer Stamp
 (if applicable)

Building Name	ENERGY STAR Score
Franklin Elementary School	62
Business Office Trailer	N/A

ENERGY STAR Scores are percentile ranking from 1 to 100. It compares your building's energy performance to similar buildings nationwide.

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 ₂ e Emissions Reduction (lbs)
Lighting Upgrades	192,696	37.5	0.0	\$23,282.11	\$127,228.56	\$18,420.00	\$108,808.56	4.7	194,043
Install LED Fixtures	45,594	9.2	0.0	\$5,490.18	\$38,089.17	\$3,730.00	\$34,359.17	6.3	45,913
Retrofit Fluorescent Fixtures with LED Lamps and Drivers	1,229	0.3	0.0	\$175.76	\$1,094.00	\$80.00	\$1,014.00	5.8	1,238
Retrofit Fixtures with LED Lamps	144,874	27.9	0.0	\$17,495.92	\$86,001.84	\$14,610.00	\$71,391.84	4.1	145,887
Install LED Exit Signs	999	0.1	0.0	\$120.25	\$2,043.55	\$0.00	\$2,043.55	17.0	1,006
Lighting Control Measures	37,873	7.6	0.0	\$4,574.42	\$33,374.00	\$4,700.00	\$28,674.00	6.3	38,137
Install Occupancy Sensor Lighting Controls	32,736	6.8	0.0	\$3,955.90	\$31,498.00	\$4,100.00	\$27,398.00	6.9	32,965
Install High/Low Lighting Controls	5,137	0.7	0.0	\$618.52	\$1,876.00	\$600.00	\$1,276.00	2.1	5,172
Motor Upgrades	9,484	2.1	0.0	\$1,142.01	\$39,969.40	\$0.00	\$39,969.40	35.0	9,550
Premium Efficiency Motors	9,484	2.1	0.0	\$1,142.01	\$39,969.40	\$0.00	\$39,969.40	35.0	9,550
Variable Frequency Drive (VFD) Measures	19,116	4.8	0.0	\$2,301.90	\$24,585.70	\$1,400.00	\$23,185.70	10.1	19,250
Install VFDs on Constant Volume (CV) HVAC	7,990	1.9	0.0	\$962.16	\$10,158.50	\$1,400.00	\$8,758.50	9.1	8,046
Install VFDs on Hot Water Pumps	11,126	3.0	0.0	\$1,339.74	\$14,427.20	\$0.00	\$14,427.20	10.8	11,204
Electric Unitary HVAC Measures	7,786	3.9	0.0	\$937.60	\$12,243.60	\$552.00	\$11,691.60	12.5	7,841
Install High Efficiency Electric AC	7,786	3.9	0.0	\$937.60	\$12,243.60	\$552.00	\$11,691.60	12.5	7,841
Gas Heating (HVAC/Process) Replacement	0	0.0	193.4	\$2,439.80	\$143,709.43	\$7,732.00	\$135,977.43	55.7	31,640
Install High Efficiency Steam Boilers	0	0.0	193.4	\$2,439.80	\$143,709.43	\$7,732.00	\$135,977.43	55.7	31,640
Domestic Water Heating Upgrade	0	0.0	49.3	\$639.61	\$4,819.92	\$300.00	\$4,519.92	7.1	6,980
Install Tankless Water Heater	0	0.0	26.0	\$337.47	\$4,705.20	\$300.00	\$4,405.20	13.1	3,683
Install Low-Flow Domestic Hot Water Devices	0	0.0	23.3	\$302.14	\$114.72	\$0.00	\$114.72	0.4	3,297
Food Service Equipment & Refrigeration Measures	1,618	0.0	0.0	\$194.88	\$2,192.60	\$125.00	\$2,067.60	10.6	1,630
Refrigeration Controls	1,618	0.0	0.0	\$194.88	\$2,192.60	\$125.00	\$2,067.60	10.6	1,630
Plug Load Equipment Control - Vending Machine	1,612	0.0	0.0	\$194.09	\$230.00	\$0.00	\$230.00	1.2	1,623
Vending Machine Control	1,612	0.0	0.0	\$194.09	\$230.00	\$0.00	\$230.00	1.2	1,623
Custom Measures	21,770	0.0	0.0	\$2,527.49	\$6,175.00	\$0.00	\$6,175.00	2.4	21,922
Computer Power Management Software	21,770	0.0	0.0	\$2,527.49	\$6,175.00	\$0.00	\$6,175.00	2.4	21,922
TOTALS	291,955	55.9	242.7	\$38,233.91	\$394,528.21	\$33,229.00	\$361,299.21	9.4	332,616

* - 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).

Cost Effective Opportunities*



*Opportunities considered cost effective have a payback period less than the expedited life of the measure

Energy Conservation Measure		Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel 3 Savings (MMBtu)	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		192,696	37.5	0.0	0.0	\$23,282.11	\$127,228.56	\$18,420.00	\$108,808.56	4.7	194,043
ECM 1	Install LED Fixtures	45,594	9.2	0.0	0.0	\$5,490.18	\$38,089.17	\$3,730.00	\$34,359.17	6.3	45,913
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	1,229	0.3	0.0	0.0	\$175.76	\$1,094.00	\$80.00	\$1,014.00	5.8	1,238
ECM 3	Retrofit Fixtures with LED Lamps	144,874	27.9	0.0	0.0	\$17,495.92	\$86,001.84	\$14,610.00	\$71,391.84	4.1	145,887
ECM 4	Install LED Exit Signs	999	0.1	0.0	0.0	\$120.25	\$2,043.55	\$0.00	\$2,043.55	17.0	1,006
Lighting Control Measures		37,873	7.6	0.0	0.0	\$4,574.42	\$33,374.00	\$4,700.00	\$28,674.00	6.3	38,137
ECM 5	Install Occupancy Sensor Lighting Controls	32,736	6.8	0.0	0.0	\$3,955.90	\$31,498.00	\$4,100.00	\$27,398.00	6.9	32,965
ECM 6	Install High/Low Lighting Controls	5,137	0.7	0.0	0.0	\$618.52	\$1,876.00	\$600.00	\$1,276.00	2.1	5,172
Variable Frequency Drive (VFD) Measures		19,116	4.8	0.0	0.0	\$2,301.90	\$24,585.70	\$1,400.00	\$23,185.70	10.1	19,250
ECM 7	Install VFDs on Constant Volume (CV) HVAC	7,990	1.9	0.0	0.0	\$962.16	\$10,158.50	\$1,400.00	\$8,758.50	9.1	8,046
ECM 8	Install VFDs on Hot Water Pumps	11,126	3.0	0.0	0.0	\$1,339.74	\$14,427.20	\$0.00	\$14,427.20	10.8	11,204
Electric Unitary HVAC Measures		7,786	3.9	0.0	0.0	\$937.60	\$12,243.60	\$552.00	\$11,691.60	12.5	7,841
ECM 9	Install High Efficiency Electric AC	7,786	3.9	0.0	0.0	\$937.60	\$12,243.60	\$552.00	\$11,691.60	12.5	7,841
Domestic Water Heating Upgrade		0	0.0	49.3	49.3	\$639.61	\$4,819.92	\$300.00	\$4,519.92	7.1	6,980
ECM 10	Install Tankless Water Heater	0	0.0	26.0	26.0	\$337.47	\$4,705.20	\$300.00	\$4,405.20	13.1	3,683
ECM 11	Install Low-Flow Domestic Hot Water Devices	0	0.0	23.3	23.3	\$302.14	\$114.72	\$0.00	\$114.72	0.4	3,297
Food Service Equipment & Refrigeration Measures		1,618	0.0	0.0	0.0	\$194.88	\$2,192.60	\$125.00	\$2,067.60	10.6	1,630
ECM 12	Refrigeration Controls	1,618	0.0	0.0	0.0	\$194.88	\$2,192.60	\$125.00	\$2,067.60	10.6	1,630
Plug Load Equipment Control - Vending Machine		1,612	0.0	0.0	0.0	\$194.09	\$230.00	\$0.00	\$230.00	1.2	1,623
ECM 13	Vending Machine Control	1,612	0.0	0.0	0.0	\$194.09	\$230.00	\$0.00	\$230.00	1.2	1,623
Custom Measures		21,770	0.0	0.0	0.0	\$2,527.49	\$6,175.00	\$0.00	\$6,175.00	2.4	21,922
ECM 14	Computer Power Management Software	21,770	0.0	0.0	0.0	\$2,527.49	\$6,175.00	\$0.00	\$6,175.00	2.4	21,922
TOTALS		282,471	53.8	49.3	49.3	\$34,652.10	\$210,849.38	\$25,497.00	\$185,352.38	5.3	291,426

* - 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).

Franklin Elementary School



Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Natural Gas Savings (MMBtu)	Annual No. 2 Fuel Oil Savings (MMBtu)	Annual Propane Savings (MMBtu)	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													
		190,609	36.8	0.0	0.0	0.0	0.0	\$22,952.26	\$123,268.76	\$18,170.00	\$107,098.76	4.7	191,942
ECM 0	Install High Performance T-5 or T-8 Fixtures	0	0.0	0.0	0.0	0.0	0.0	\$0.00	\$0.00	\$0.00	\$0.00	0.0	0
ECM 0	Retrofit Fixtures with High Performance T-5 or T-8 Lamps and Ballasts	0	0.0	0.0	0.0	0.0	0.0	\$0.00	\$0.00	\$0.00	\$0.00	0.0	0
ECM 0	Delamp T-8 Fixtures & Add Reflectors	0	0.0	0.0	0.0	0.0	0.0	\$0.00	\$0.00	\$0.00	\$0.00	0.0	0
ECM 1	Install LED Fixtures	45,594	9.2	0.0	0.0	0.0	0.0	\$5,490.18	\$38,089.17	\$3,730.00	\$34,359.17	6.3	45,913
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	493	0.1	0.0	0.0	0.0	0.0	\$59.32	\$392.00	\$20.00	\$372.00	6.3	496
ECM 3	Retrofit Fixtures with LED Lamps	143,524	27.4	0.0	0.0	0.0	0.0	\$17,282.44	\$84,744.04	\$14,420.00	\$70,324.04	4.1	144,528
ECM 4	Install LED Exit Signs	999	0.1	0.0	0.0	0.0	0.0	\$120.25	\$2,043.55	\$0.00	\$2,043.55	17.0	1,006
Lighting Control Measures													
		37,582	7.4	0.0	0.0	0.0	0.0	\$4,515.75	\$32,602.00	\$4,630.00	\$27,972.00	6.2	37,764
ECM 5	Install Occupancy Sensor Lighting Controls	32,365	6.7	0.0	0.0	0.0	0.0	\$3,897.23	\$30,726.00	\$4,030.00	\$26,696.00	6.8	32,591
ECM 6	Install High/Low Lighting Controls	5,137	0.7	0.0	0.0	0.0	0.0	\$618.52	\$1,876.00	\$600.00	\$1,276.00	2.1	5,172
Motor Upgrades													
		9,484	2.1	0.0	0.0	0.0	0.0	\$1,142.01	\$39,969.40	\$0.00	\$39,969.40	35.0	9,550
	Premium Efficiency Motors	No	9,484	2.1	0.0	0.0	0.0	\$1,142.01	\$39,969.40	\$0.00	\$39,969.40	35.0	9,550
Variable Frequency Drive (VFD) Measures													
		19,116	4.8	0.0	0.0	0.0	0.0	\$2,301.90	\$24,585.70	\$1,400.00	\$23,185.70	18.1	19,250
ECM 7	Install VFDs on Constant Volume (CV) HVAC	7,990	1.9	0.0	0.0	0.0	0.0	\$962.16	\$10,158.50	\$1,400.00	\$8,758.50	9.1	8,046
ECM 8	Install VFDs on Hot Water Pumps	11,126	3.0	0.0	0.0	0.0	0.0	\$1,339.74	\$14,427.20	\$0.00	\$14,427.20	10.8	11,204
Electric Unitary HVAC Measures													
		7,786	3.9	0.0	0.0	0.0	0.0	\$937.60	\$12,243.60	\$552.00	\$11,691.60	12.5	7,841
ECM 9	Install High Efficiency Electric AC	Yes	7,786	3.9	0.0	0.0	0.0	\$937.60	\$12,243.60	\$552.00	\$11,691.60	12.5	7,841
Gas Heating (HVAC/Process) Replacement													
		0	0.0	0.0	193.4	0.0	193.4	\$2,439.80	\$143,709.43	\$7,732.00	\$135,977.43	55.7	31,640
	Install High Efficiency Steam Boilers	No	0	0.0	193.4	0.0	193.4	\$2,439.80	\$143,709.43	\$7,732.00	\$135,977.43	55.7	31,640
Domestic Water Heating Upgrade													
		0	0.0	0.0	0.0	49.3	49.3	\$639.61	\$4,819.92	\$300.00	\$4,519.92	7.1	6,980
ECM 10	Install Tankless Water Heater	Yes	0	0.0	0.0	26.0	26.0	\$337.47	\$4,705.20	\$300.00	\$4,405.20	13.1	3,683
ECM 11	Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	0.0	23.3	23.3	\$302.14	\$114.72	\$0.00	\$114.72	0.4	3,297
Food Service Equipment & Refrigeration Measures													
		1,618	0.0	0.0	0.0	0.0	0.0	\$194.88	\$2,192.60	\$125.00	\$2,067.60	18.6	1,630
ECM 12	Refrigeration Controls	Yes	1,618	0.0	0.0	0.0	0.0	\$194.88	\$2,192.60	\$125.00	\$2,067.60	10.6	1,630
Plug Load Equipment Control - Vending Machine													
		1,612	0.0	0.0	0.0	0.0	0.0	\$194.89	\$230.00	\$0.00	\$230.00	1.2	1,623
ECM 13	Vending Machine Control	Yes	1,612	0.0	0.0	0.0	0.0	\$194.89	\$230.00	\$0.00	\$230.00	1.2	1,623
Custom Measures													
		21,770	0.0	0.0	0.0	0.0	0.0	\$2,527.49	\$6,175.00	\$0.00	\$6,175.00	2.4	21,922
ECM 14	Computer Power Management Software	Yes	21,770	0.0	0.0	0.0	0.0	\$2,527.49	\$6,175.00	\$0.00	\$6,175.00	2.4	21,922
TOTALS FOR HIGH PRIORITY MEASURES		280,014	53.0	0.0	0.0	49.3	49.3	\$34,263.52	\$208,117.58	\$25,177.00	\$182,940.58	5.3	288,952
TOTALS FOR ALL EVALUATED MEASURES		209,490	55.1	0.0	193.4	49.3	242.7	\$37,845.34	\$391,796.42	\$32,909.00	\$358,887.42	9.5	330,142

* - 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.

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Business Office Trailer



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			2,086	0.7	0.0	\$329.92	\$1,959.80	\$250.00	\$1,709.80	5.2	2,101
ECM 1	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	736	0.2	0.0	\$116.44	\$702.00	\$60.00	\$642.00	5.5	741
ECM 2	Retrofit Fixtures with LED Lamps	Yes	1,350	0.4	0.0	\$213.48	\$1,257.80	\$190.00	\$1,067.80	5.0	1,359
Lighting Control Measures			371	0.1	0.0	\$58.67	\$772.00	\$70.00	\$702.00	12.0	374
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	371	0.1	0.0	\$58.67	\$772.00	\$70.00	\$702.00	12.0	374
TOTALS FOR HIGH PRIORITY MEASURES			2,457	0.8	0.0	\$388.59	\$2,731.80	\$320.00	\$2,411.80	6.2	2,474
TOTALS FOR ALL EVALUATED MEASURES			2,457	0.8	0.0	\$388.59	\$2,731.80	\$320.00	\$2,411.80	6.2	2,474

* - 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).



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

Clean Energy Program Portfolio



ELIGIBLE SECTORS →

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

INCENTIVE PROGRAMS →

Equipment Rebates:

- SmartStart Retrofit
- SmartStart New Construction
- Direct Install
- Large Energy Users

Whole Buildings:

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

Energy Generation:

- Combined Heat and Power (CHP)

OTHER PROGRAMS →

Renewable Energy Generation:

- SREC Registration Program (SRP)

* eligible programs are highlighted in yellow

SmartStart: Overview



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

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 an average 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/building cap
 - \$250,000 per entity cap (up to \$500,000 if using ESIP)
- Participating contractors provide support and process all paperwork
- Fast turnaround time: Average length of time for job completion (4-6 months)

Direct Install:



Participating Contractor

Lime Energy

Tony McCoy

855-600-5463

njdi@lime-energy.com

Recommended NJCEP Incentives per Building



Franklin Borough BOE	SmartStart	Direct Install
Franklin Elementary School	X	X
Business Office Trailer	X	X

Energy Savings Improvement Program (ESIP)

- Provides alternative financing for energy savings projects at public institutions. Value of energy savings leveraged to pay for cost of EE projects over a 15 year contract. Does not count as debt/require voter approval.
- Requires an audit as 1st step (LGEA satisfies requirement)
- ESIP participation question on LGEA application
- Program administered directly by BPU

ESIP Process

New Jersey's Clean Energy Program Interaction

Initial Energy Audit completed
for entity building(s)

Local Government Energy Audit
(LGEA) may be used to meet
this requirement

Entity issues ESIP RFP (previously
approved by BPU) and selects ESCO
or DIY approach

Investment Grade Energy Audit completed
and Energy Savings Plan (ESP)
developed

P4P Energy Reduction Plan (ERP),
Direct Install, or SmartStart application
recommended submittal time frame

Third party review of ESP

Review and approval of ESP
by Board of Public Utilities (BPU)

Entity adopts ESP,
determines guarantee



FOR MORE INFORMATION

ESIP

Mike Thulen

ESIP Coordinator

Office: 609-777-3338

Cell: 732-330-2419

ESIP@bpu.nj.gov

Questions



?



FOR MORE INFORMATION

Visit NJCleanEnergy.com

Call (866) NJSMART

Jim Friedl

Outreach Manager

732-855-6543

jfriedl@trcsolutions.com