



LGEA Presentation Clarence Dillon Public Library



November 24, 2021

New Jersey's Clean Energy Program

Lighting the way to New Jersey's Clean Energy Future

INTRODUCTIONS

- Clarence Dillon Public Library
 - Marie Crenshaw Library Director
 - Dan McCollum Building Custodian
- NJ Clean Energy Program
 - Sarah Walters LGEA Project Manager
 - Moussa Traore LGEA Lead Auditor
 - Ryan Knippenberg LGEA Project Auditor
 - Nauman Khurshid TRC Outreach Account Manager



AGENDA

- The audit process overview
- Energy use & existing conditions
- Review of Energy Conservation Measures (ECMs) identified
 & other recommendations
- Energy Savings Improvement Program (ESIP)
- C&I Transition of EE Programs
- JCP&L Energy Efficiency Program
- Questions regarding the draft audit report
- Next steps for Clarence Dillon Public Library



LGEA PROCESS

- Application Approval
- Initial Call
- Facility Interviews
- Audit
- Benchmarking & Analysis
- Draft Reports
- LGEA Presentation
- Final Reports



CLARENCE DILLON PUBLIC LIBRARY

Overview of Systems, Baseline & Existing Conditions:

- Building Envelope
- Lighting System
- HVAC and Mechanical Systems
- Plug Load Equipment
- Café Equipment

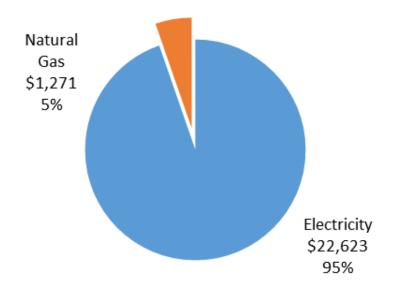
Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs
- Solar Consumption and Costs

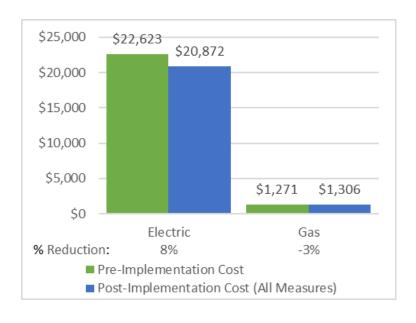


UTILITY BREAKOUT

Annual Energy Costs

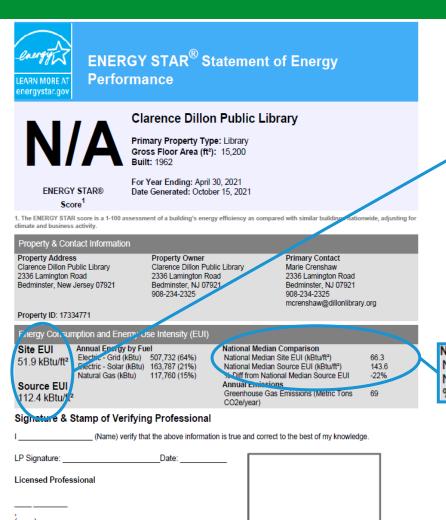


Pre & Post Implementation Cost



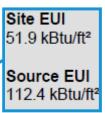


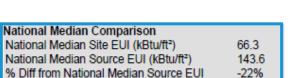
BENCHMARKING

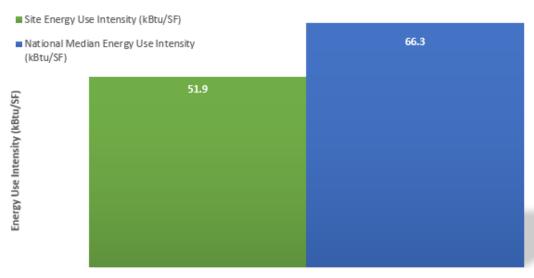


Professional Engineer or Registered

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.

CLARENCE DILLON PUBLIC LIBRARY

#	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 (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (Ibs)
Lighting Upgrades			3,097	0.9	-1	\$350	\$1,365	\$130	\$1,235	3.5	3,041
ECM 1	Retrofit Fixtures with LED Lamps	Yes	3,097	0.9	-1	\$350	\$1,365	\$130	\$1,235	3.5	3,041
Lighting Control Measures			12,102	3.4	-3	\$1,366	\$11,572	\$1,825	\$9,747	7.1	11,885
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	11,294	3.2	-2	\$1,275	\$10,222	\$1,335	\$8,887	7.0	11,091
ECM 3	Install High/Low Lighting Controls	Yes	809	0.2	0	\$91	\$1,350	\$490	\$860	9.4	794
TOTALS (COST EFFECTIVE MEASURES)			15,199	4.2	-3	\$1,716	\$12,937	\$1,955	\$10,982	6.4	14,926
TOTALS (ALL MEASURES)			15,199	4.2	-3	\$1,716	\$12,937	\$1,955	\$10,982	6.4	14,926

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



^{** -} Simple Pay back 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

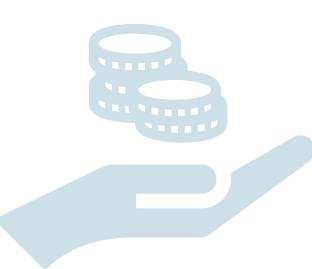


FINANCING MECHANISM: ESIP

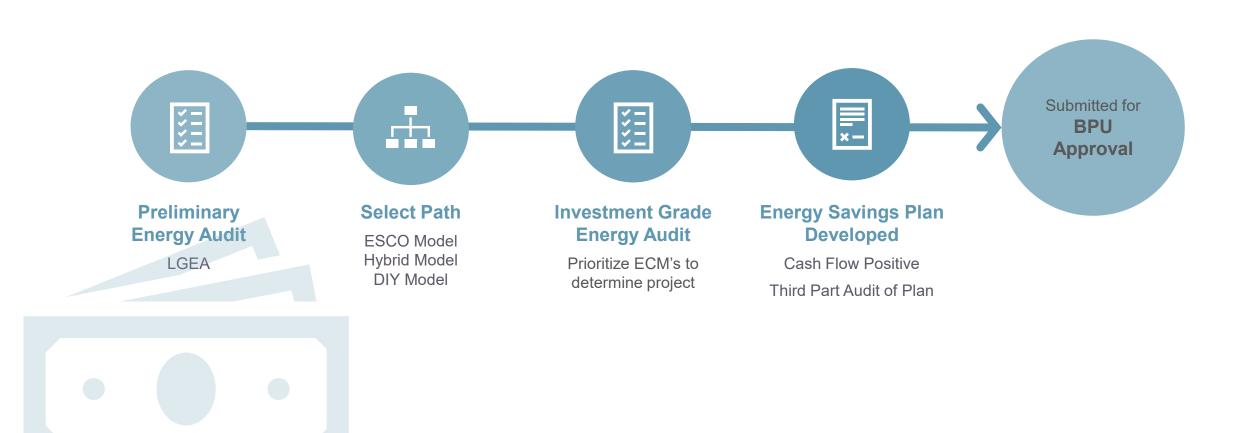
ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- Energy Performance Contracting NJ ESIP
- Financing Mechanism that allows state 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
- 15 or 20 year self-funding loan
- Recent Energy Efficiency Transition
 - NJBPU Approved Incentive Programs
 - Utility or NJCEP
- Can be combined with Federal/State Pandemic Relief Funds
- No upfront capital expenses
- No referendum or impact to tax payers





FINANCING MECHANISM: ESIP



Energy Savings Improvement Program

FOR MORE INFORMATION

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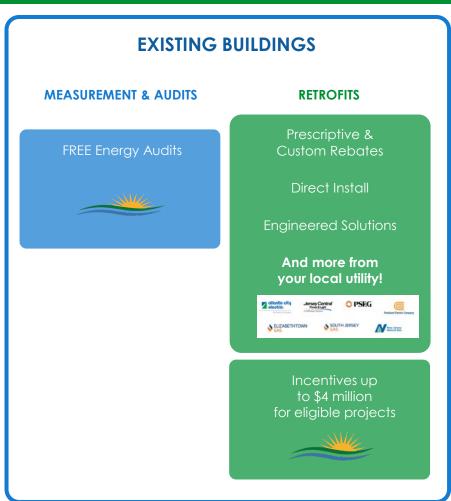
C&I Transition of Energy Efficiency Programs

https://www.njcleanenergy.com/transition

LOCAL GOVERNMENT CUSTOMERS

COMMERCIAL & INSTITUTIONAL CUSTOMERS

LARGE ENERGY CUSTOMERS

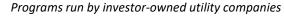
















Prescriptive and Custom Energy Efficiency Program

For commercial and industrial projects

Costs of these programs may be recovered through customer rates in accordance with New Jersey law. For a complete list of commercial, industrial, residential and low-income energy efficiency programs, please visit energysaveNJ.com.



Eligibility

Prescriptive Projects

Purchased **on or after** July 1, 2021* follow two paths:

If not yet installed or purchased

→ submit for pre-approval

If **installed on or after**July 1, <u>2021</u> but did not receive pre-approval

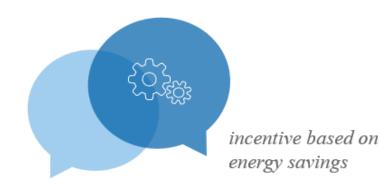
→ you may apply for incentives no later than 180 days of project completion. Completion is defined as equipment being installed and operable.

*Equipment purchased prior to July 1,2021 may be eligible for incentives at NJCleanEnergy.com



Prescriptive vs. Custom





Prescriptive

Install high-efficiency eligible electric equipment across a variety of technologies including:

- Refrigeration Doors, Covers, Freezer Motors
- Electric HVAC
- Controls
- Lighting and Lighting Controls
- Food Service Equipment
- Variable Frequency Drives
- Ground Source Heat Pumps
- More!

Custom

Incentives are available for:

- Compressed Air (excluding maintenance or repair for air system leaks)
- Refrigeration
- HVAC
- Building Optimization
- Process Improvements
- Custom Lighting Projects
- More!



Process

Required for Custom, recommended but optional for Prescriptive Project deficiencies will be addressed every 5 business days until resolved. Installation may begin once approval has been issued. Approval documents will include the list of documentation required for project verification and payment.

Certain projects will undergo post-inspection prior to payment.

Pre-approval





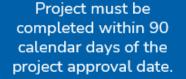
Incentive Payment





Subject to pre-inspection

Applications are subject to pre-inspections prior to approval.



If a project is not completed within 90 calendar days customer will be contacted within 5 business days.

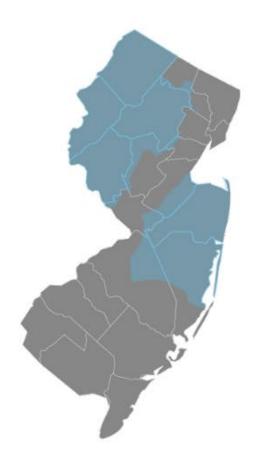


Final documentation

Once you complete your project you can submit final documentation for payment. The customer can assign either the full incentive or part of the incentive to another entity.



Outreach Account Managers





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