

Montclair BOE



Energy Savings Improvement Program (ESIP)

Energy Savings Plan Summary (ESP)

AGENDA

- Team Introductions
- ESIP Process Overview
- ESIP Timeline
- ESIP Project Summary
- Environmental Summary

Team Introductions



Montclair BOE



Honeywell

ESIP Process Overview

ESIP Process Overview

PURPOSE

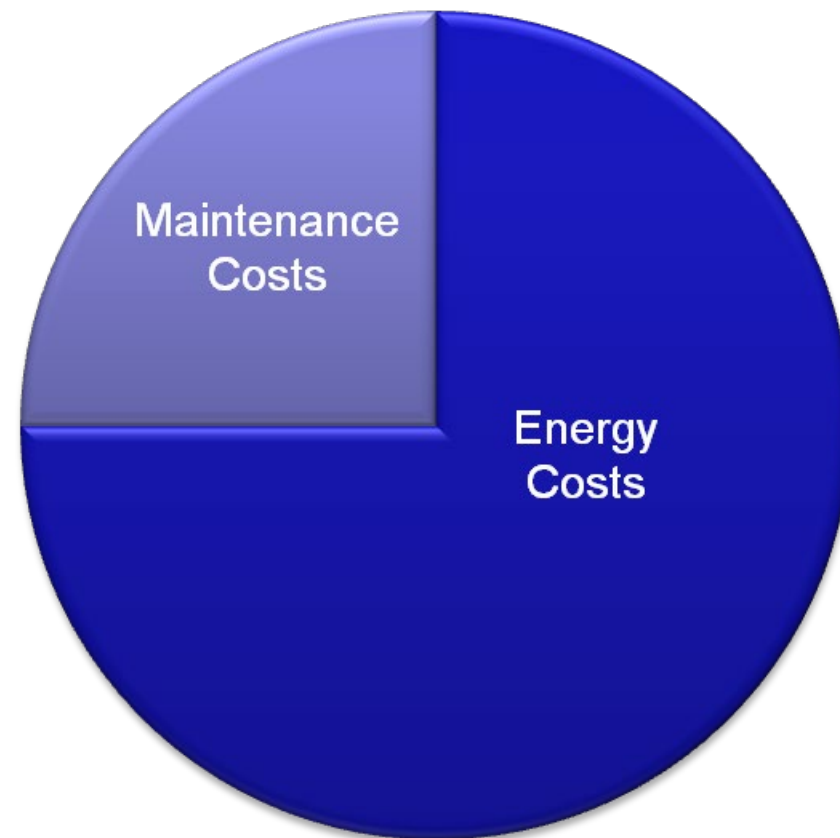
NJ PL 2012 C.55 was enacted to give schools the opportunity to re-direct a portion of their existing energy and operational expenses to pay for energy-related improvements using the energy savings that result from the improvements.

- ESIP is overseen by the New Jersey Board of Public Utilities (BPU)
- Projects are funded entirely with the resulting savings
- Energy Service Company (ESCO) guarantees the savings
- Projects improve comfort, reliability and efficiency of the existing buildings
- Projects produce significant energy efficiency rebates

Re-Redirecting Money Back into the Montclair Facilities

ESIP Process Overview

Before Improvements



After Improvements

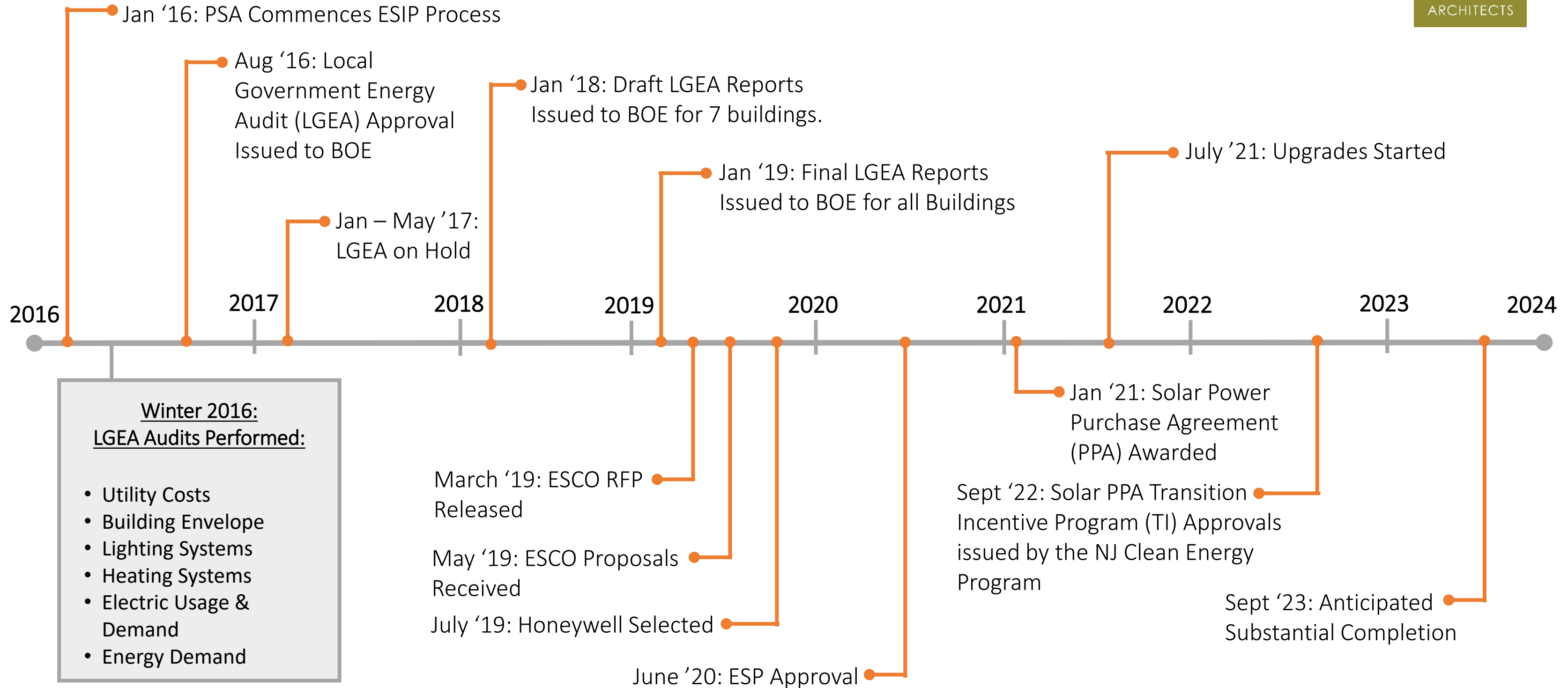


Why It Works:

- No Up-front Capital Expenditures
- Projects are Funded with Energy and Operational Savings
- The ESCO, Honeywell, Guarantees the Savings

ESIP Timeline

ESIP Timeline



ESIP Project Summary

ESIP Project Summary



Montclair Public Schools	15 Year Lease Purchase 1.5% Interest Rate
Total Project Value*	\$10,720,000.00
Total Energy and Operational Savings	\$12,044,131.00
Potential Rebates Paid Directly to School District	\$559,434.00
Positive Cash Flow for School District	\$475,097.00

*Includes Professional Design and Issuance Fees

ESIP Projects Summary



ELECTRICAL

- Lighting Upgrades
- Vending Misers
- De-Stratification Fans



Mechanical

- Roof Top Unit Replacement
- Premium Efficiency Motors and Variable Frequency Drives (VFD)
- Piping Insulation Upgrades
- Steam Trap Replacements/ Refurbishment



Building Management System

- Building Automation, Demand Control Ventilation, & Exhaust Fan Controls



Building Envelope

- Building Envelope
- Improve Classroom Comfort



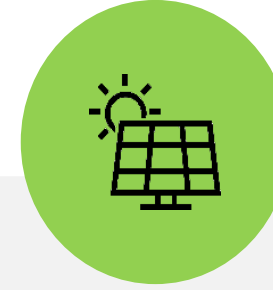
Transformer Replacement

- High Efficiency Transformers



Roof – Re-sealing

- Silicone Roof Coating
- Extend Roof Warranty for 15 years



Solar Power Purchase Agreement (PPA)

- Solar PPA Renewable Energy 765 KW



Water Conservation

- Water Conservation through aerators

ESIP Projects Summary

[illegible]

Electrical



New Destratification Fans at Rand MS



Lighting at Montclair High School

Mechanical



Existing RTU at Bradford ES



New RTU at Bradford ES

Building Envelope



New Attic Insulation at Bradford



New Door Weather Stripping &
Sweeps at Community Pre-K



Transformer Replacement



New Transformer at Bradford

Roof Re-Sealing



Northeast – Before



Northeast - After

Solar Power Purchase Agreement



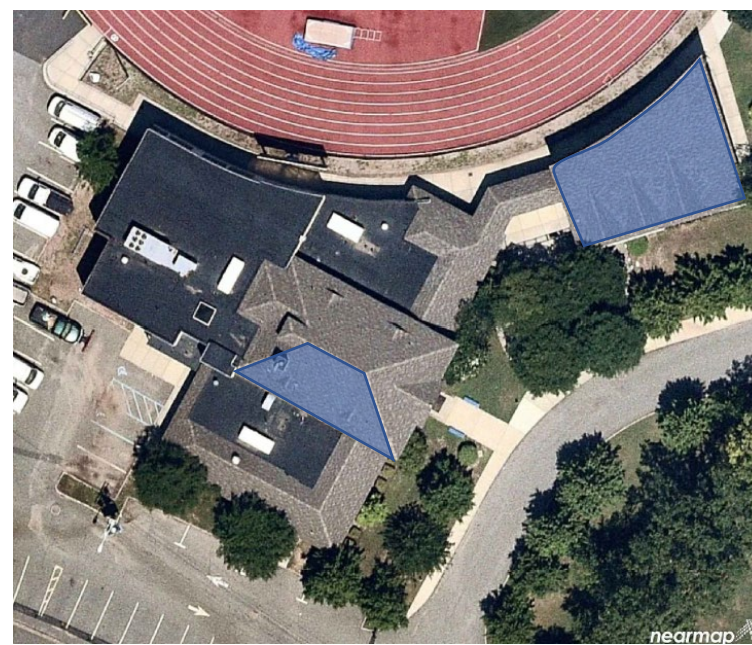
High School



Bradford



Northeast



Woodman



George Inness

Environmental Summary

Environmental Summary



Electrical Savings	2,052,491 kWh Saved
Gas Savings	291,481 Therms
Green House Gas Emissions	2627 Metric Tons
Automobiles Removed	544
Trees Saved / Planted	2488 Acres

THANK YOU