## Building Dashboard

### Federal Street Elementary</br>125 Federal Street</br>Building Data</br></br>**Building Summary**</br>Building has 3 parts, North, South and Center. Variable Frequency Drives added 2013; Roof, boiler and windows replaced 2016; Insulation added North Attic, 2016. Challenges: Vermiculite in South attic; inefficient heat distribution system.

#### Energy Profile - FY2019</br>**Energy Efficiency (BTU per Square Foot)**</br>Electric | Heat | Total  | 12,826 | 37,544 | 50,370</br>**If Total is < 40K Great!**</br>40K-80K | >80K Needs Work | Good | Very Good | Excellent |</br>**Annual Energy Cost**</br>Electric | Heat | Total  | $43,145 | $21,617 | $64,762</br>**Berkshire Gas Rate Class**</br>G42</br>**Electric Service Rate Class**</br>G2</br>**Average Monthly Demand**</br>90 kW

#### Completed Work</br>Fiscal Year | Project | Project Cost | Grant/Rebates | Life Expectancy | Warranty</br>--- | --- | --- | --- | --- | ---</br>2015 | Siemens ESCO Work (Multiple buildings) | $1,922,207 | none | varied | varied</br>2016 | Attic Insulation and air sealing | $10,466 | $5,233 | 15-30 years | 1 year</br>2016 | Replaced boiler, windows, and roof (MSBA) | $3,594,356 | $2,766,057 | 20+ years | N/A</br>2019 | LED lighting upgrade- on bill financed | $31,857 | $14,699 | 20+ years | 5 years

#### Capital Improvement Plan Projects</br>Fiscal Year | Project | Cost | Life Expectancy | Warranty</br>--- | --- | --- | --- | ---</br>2020 | Flooring Replacement - asbestos abatement (shared by 4 schools) | $550,000 | N/A | N/A</br>2020 | Fencing Replacement (all schools) | $23,000 | N/A | N/A</br>2020 | Elevator Replacement | $250,000 | N/A | N/A</br>2020 | Paving | $95,000 | N/A | N/A

#### Additional Maintenance and Replacement Projects Identified</br>**Project**</br>**Predicted Cost** | **Payback Time** | **Supporting Info**</br>--- | --- | ---</br>Motion detectors for interior lighting | N/A | N/A | N/A

#### Audits/Assessments</br>Fiscal Year | Type | Findings</br>--- | --- | ---</br>2009 | Siemens Whole building assessment | Report available upon request</br>2016 | CET Insulation assessment | North attic would benefit from more insulation and air sealing</br>2016 | Solect Solar Assessment | 115 kW system on roof proposed - in queue for SMART Program