

Case Study for:  
**Attleboro Public School System**  
Attleboro, Massachusetts



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## Case Study: Attleboro Public School System



ANNUAL KBTU\*  
SAVINGS



TOTAL PROJECT  
COST



ENERGY  
SAVINGS



PAYBACK  
PERIOD



REBATE



CUSTOMER  
INVESTMENT

### OPPORTUNITY

In 2017, The Attleboro Public School System saw an opportunity to further reduce energy costs and become more energy-efficient by replacing the antiquated lighting and mechanical equipment in various elementary and middle schools throughout the district including; Hill-Roberts Elementary, Hyman Fine Elementary, Willet Elementary, Studley Elementary, Wamsutta Middle School, Coelho Middle School, and Brennan Middle School. To move forward with the energy savings projects, the school system sought to partner with an energy service provider who could offer a turnkey solution, and assist with various aspects of the project; scope development, project and rebate management, and budgeting.

### SOLUTION

Energy Source connected with The Attleboro Public School System facilities management team to provide a comprehensive turnkey solution. Attleboro's existing mechanical control system was outdated, inefficient, and expensive to operate. With the installation of an energy management system, facility scheduling was implemented to allow temperature setbacks during unoccupied hours especially on weekends and holidays. Energy Source also installed VFD's (Variable Frequency Drives) to reduce the motor speed of the hot water pumps by 50% during shoulder hours, which led to an energy reduction of 87%.

For additional energy savings, Energy Source replaced the existing outdated lighting in the exterior of the school's campuses, and interior lighting of the school gymnasiums with advanced LED technology. The installation of new LED lighting increased the lumen output per fixture making the retrofitted areas much brighter and an overall safer environment for the students and faculty. Working with the local utility, National Grid, Attleboro received \$163,942 in utility incentives, reducing the total project costs by 30%. Through these measures, Energy Source was able to reduce Attleboro's annual energy costs by \$83,637.

### TURNKEY SERVICES

- Scope development
- Budgeting
- Project management
- Incentive procurement

### PROJECT BENEFITS



ENERGY  
REDUCTION



IMPROVED  
SAFETY



\*kBtu- combination of therm and kWh savings