

Case Study for:

Attleboro Public School System

Attleboro, Massachusetts



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2,742,308
Annually

ANNUAL KBTU
SAVINGS*

\$559,039

TOTAL PROJECT
COST

\$83,637
Annually

ENERGY
SAVINGS

TURNKEY SERVICES USED

- Scope development
- Budgeting
- Project management
- Rebate management

6.7
Years

PAYBACK
PERIOD

\$163,942

REBATE

\$395,097

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 these 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, based in Providence, Rhode Island connected with The Attleboro Public School System 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 Attleboro's existing mechanical control system was outdated, inefficient, and expensive to operate.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For additional energy savings, Energy Source replaced the existing outdated lighting in the exterior of the school's campuses, and interior lighting of the school gymnasiums with LED technology. The installation of new LED lighting increased lumen output making the updated areas much brighter and overall a safer environment for the students and faculty. Working with the local utility, National Grid, Energy Source received \$163,942 in utility incentives, reducing the overall project costs by 30%. Through these measures, Energy Source was able to reduce Attleboro's annual energy costs by \$83,637.



*kBtu- combination of therm and kWh savings