



Energy Efficiency Case Study

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Sunovion

About Sunovion

Sunovion is a research-based pharmaceutical company dedicated to treating and preventing human disease by discovering, developing, and commercializing innovative pharmaceutical products that are directed toward serving unmet medical needs. Sunovion's drug development program has yielded a portfolio of pharmaceutical products and candidates with a focus on the treatment of respiratory and central nervous system disorders. Sunovion's corporate headquarters are located in Marlborough, MA.

Project Summary

Sunovion, a research-based pharmaceutical company dedicated to treating and preventing human disease needed to expand the HVAC System capabilities in their facilities while reducing energy usage and costs. Through the Mass Save program, they were able to expand their current Energy Efficient Mechanical Systems and Controls:

- Expanded EMS System's capabilities to reduce electrical energy consumption year-round.
- Added software algorithm to the EMS program to evaluate area temperatures and monitor the level of electric reheat energy used.
- During the cooling season, the algorithm resets the air handler's supply temperature to minimize over cooling and duty cycles the electric reheat terminal units in zones where reheat is necessary.
- During the heating season, the supply temperature is also reset, maximizing the use of gas-fired pre-heating units while the electric reheat terminal units are also duty cycled.
- Range limits are defined for the supply air reset and duty cycling in order to maintain occupant comfort.

Mass Save as a Strategic Partner

Whether you are building a new manufacturing facility, upgrading old, inefficient equipment or manage a property in need of energy improvements, the Sponsors of Mass Save will help you identify cost-effective energy efficiency improvements, provide technical assistance, and offer financial incentives in addition to interest-free loans to help kick-start your company's next big project. To learn about these and other commercial and industrial energy efficiency programs available, visit MassSave.com/Business.

Solution

Installed expansion of the Energy Management System to control temperatures while maintaining occupant comfort.

Total Project Cost

\$8,190

Mass Save Sponsor Incentives

\$4,914

Annual Electric Savings

178,009 kWh

Annual Cost Savings

\$17,925

Simple Payback Period

.2 years

Carbon Reduction

1,036 tons

About Mass Save:

Together, we make good happen for Massachusetts: Berkshire Gas, Cape Light Compact, Eversource, Liberty Utilities, National Grid and Unitil. As one, we form Mass Save®, with the common goal of helping residents and businesses across Massachusetts save money and energy, leading our state to a clean and energy efficient future.

WE ARE MASS SAVE®:

