

Mass Save[®] Energy Efficiency Case Study

Sepracor Inc.

PROJECT SUMMARY

Sepracor, 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 Management System by:

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 overcooling 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.

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

- Total Project Cost \$8,190
- Mass Save Sponsor Incentive \$4,914
- Annual Electric Savings 178,009 kWh
- Annual Cost Savings \$17,925
- Pay Back2 years
- Carbon Reduction 1,036 tons



About Sepracore

Sepracor 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. Sepracor'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. Sepracor's corporate headquarters are located in Marlborough, MA.

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 Mass Save program 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 or join the [Mass Save group on LinkedIn](#).

About Mass Save

Mass Save is an initiative sponsored by Massachusetts' gas and electric utilities and energy efficiency service provider, including Berkshire Gas, Cape Light Compact, Columbia Gas of Massachusetts, National Grid, New England Gas Company, NSTAR, Unitil, and Western Massachusetts Electric Company. The Sponsors of Mass Save work closely with the Massachusetts Department of Energy Resources to provide a wide range of services, incentives, trainings, and information promoting energy efficiency that help residents and businesses manage energy use and related costs.

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