HEALTHCARE

SAVE ENERGY & MONEY in your healthcare facility.

Opportunity and Benefits

In the Northeast, hospitals with an average of 200,000 square feet spend $1.2 million annually on electricity and natural gas. With high energy demands for heating and cooling, ventilation and lighting, and plug loads, hospitals can consume almost twice the energy per square foot as traditional office spaces and produce more CO_2 per square foot. According to the EPA's ENERGY STAR® research, investor-owned hospitals can increase earnings per share by one cent if they reduce energy costs by just five percent. In addition to addressing their high energy costs, hospitals now recognize their need to take action to reduce CO_2 emissions that lead to health complications.

Improving the energy efficiency of the healthcare system makes good business sense, for both social and economic reasons. Increased sustainability and reduced energy costs will yield more money for patient care and clinical programs, in addition to contributing to a healthier environment.

Incentives and Financing

Financial incentives and financing can help make your energy efficiency projects a reality so that you can start saving energy and money. Our energy specialists can help you navigate through this process.

Training

Educate your staff on the latest equipment and best practices that are available at your healthcare facility by taking Labs21 training—available through the Mass Save program. Your staff can then apply the lessons learned to the everyday operation of your facility for optimal productivity and efficiency.

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.

Start saving now!

Get started on improving your healthcare facilities' performance today.
Visit us online at **MassSave.com** Some restrictions may apply.

mass save®
Savings through energy efficiency

How can you save energy at your Healthcare facility?

1 Commissioning and Recommissioning: Ensure that all your systems are tuned up and operating at maximum efficiency. Recommissioning should be performed every 3-5 years to improve building performance, save energy, reduce operational costs, and extend equipment life.

2 Lighting and Lighting Controls: Install high-performance lighting and reduced-wattage T8 lamps and ballasts to cut energy use by more than 20 percent compared to standard T8 technology. Indirect/direct fixtures using T5 or T8 lamps can provide a more comfortable environment for patients and staff, while direct T5 lamps are suitable for spaces where the ceiling is 16 feet or higher. Compact fluorescent lamps (CFLs) can replace incandescent lamps in a variety of applications and save up to $25 per lamp per year in energy and maintenance costs. Use occupancy sensors to help save energy and reduce maintenance costs.

3 HVAC Equipment: Check to make sure your HVAC system is regularly cleaned and serviced to help prevent costly heating and cooling bills. Simple tasks such as checking the economizer, the on and off sequence of a chiller, or following a steam trap inspection and maintenance plan can make a big difference. HVAC systems in the U.S. are typically responsible for 33 percent of the electricity and 56 percent of the natural gas consumed in healthcare facilities. By adding variable speed drives to pumps and fans in HVAC systems, energy is saved by allowing motors to adjust their output to fluctuating heating and ventilation needs. Consider upgrading to high efficiency HVAC equipment—heating, ventilation and air conditioning—such as air source heat pumps and other Cool Choice qualified equipment which will provide substantial energy savings.

4 HVAC Controls: Gain more efficiency and improve comfort. Install controls room by room to ensure that heat and air conditioning don't operate at full blast when rooms are unoccupied.

5 Water Heating: Consider commercial heat pump water heaters or direct-vent, sealed combustion condensing water heaters and boilers with efficiencies greater than 90 percent to cut your hospital's largest energy expense by up to 50 percent.

6 Energy Management Systems (EMS): Hospital Energy Management Systems, also known as Building Automation Systems (BAS), often have older, pneumatic controls that can be recalibrated or replaced with electronic systems. Installing a new BAS in hospital applications, typically costs between $1.50 and $2.50 per square foot and has a payback period of several years. In addition, BASs can also be useful for continuous monitoring and commissioning and when used this way, a data analysis software or third-party diagnostic service can help to identify operational anomalies.

7 Kitchen Appliances and Low Flow Spray Valves: Maximize savings and improve your food service energy management by installing gas kitchen equipment and high efficiency refrigeration equipment. Additionally, installation of low-flow pre-rinse spray valves in the kitchen helps save up to $600 a year.

8 Ozone Commercial Laundry System: A system that uses an ozone additive to reduce water use, fuel use, and chemical use.

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