

# Fact Sheet: Healthcare

## BGE Smart Energy Savers Program®



Healthcare organizations, including hospitals, assisted living facilities and nursing homes, spend nearly \$8.8 billion on energy each year to meet patient needs. Hospitals in the United States use an average of 27.5 kilowatt-hours of electricity annually. In a typical hospital, lighting, heating and hot water represent about 72% of total energy use, making those systems the best targets for energy savings.<sup>1</sup>

The BGE Smart Energy Savers Program® offers a variety of energy efficiency programs and incentives that can help all types of healthcare facilities adopt energy-saving solutions like these:

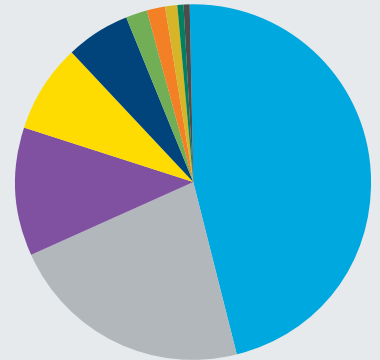
- Reduce energy use by 25% in assisted living facilities with packaged terminal air conditioners by installing room controls for heating, ventilation and air conditioning (HVAC) systems.
- Improve lighting quality and safety while reducing energy use by retrofitting visitor and employee parking areas with LED lighting fixtures.
- Achieve significant energy savings by replacing inefficient ice machines on patient floors.
- Install occupancy sensors or manual switches in operating rooms to reduce the speed of the supply and exhaust fans when rooms are unoccupied.

### How Is BGE Helping the Healthcare Industry?

Many healthcare facilities have tight budgets, so low- or no-cost solutions to reduce energy expenditures are especially important. By taking steps to reduce energy consumption for lighting, heating, cooling and other end uses, you can take greater control of your facility's expenses. Incentives are available through the BGE Smart Energy Savers Program for performing lighting retrofits, upgrading to high-efficiency HVAC equipment and installing occupancy sensors in patient rooms, supply closets, restrooms and offices.

**Lighting typically accounts for more than 40% of a healthcare facility's energy costs.** Incentives are available to retrofit or replace lighting throughout your facility with energy-efficient options that offer immediate energy savings and improve overall lighting quality. Because energy-efficient lighting typically generates less waste heat, a lighting retrofit project can potentially reduce your cooling costs as an added benefit.

### Typical Energy Use in Healthcare Facilities



Lighting	43%
Ventilation	21%
Cooling	14%
Miscellaneous	12%
Computer	4%
Refrigeration	2%
Heating	2%
Office Use	1%
Water Heating	1%

### Simple Solutions for Healthcare Facilities

- Install smart power strips with built-in occupancy sensors to shut off plugged-in devices like printers and computer monitors when not in use.
- Use programmable thermostats to adjust temperatures when rooms are unoccupied.
- Install vending machine controls to save energy during periods when facility is unoccupied.
- Install low-flow aerators on faucets to save on energy and water costs.



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Consider the following lighting-related opportunities for cutting energy costs:

- Upgrading to more efficient lighting in common areas and patient rooms for general lighting often reduces the number of lamps needed per fixture, optimizing the fixture layout in the space and controlling glare better than existing fixtures such as deep-cell parabolics. With this simple upgrade, hospitals and other healthcare facilities can save up to 35% in energy use. And, with incentives, the payback is often less than 2 years.
- Facilities that use T12 fluorescent lamps can replace them with high-performance T8 lamps and electronic ballasts to reduce lighting energy consumption by up to 35% and see payback in 1 to 3 years. Adding occupancy sensors or other lighting controls can potentially double the savings.
- Replacing compact fluorescent lamps (CFLs), halogen and incandescent lamps with LEDs in many applications can reduce energy use by 40% or more and provide paybacks of approximately 1 year.
- Retrofitting high-intensity discharge (HID) lighting in outdoor areas and parking lots with LED lighting can reduce related energy consumption and maintenance costs by 50% or more, and bring the return on investment to less than 2 years. Incentives for LED exterior fixtures range from \$60 to \$400 per fixture when replacing HID sources! If your parking lot has fifty 400 watt fixtures, incentives could cover up to \$11,250!

**Heating, cooling and ventilation are critical in healthcare facilities, particularly hospitals, and account for more than 35% of energy costs.**

Efficiency upgrades can mean big savings on your energy costs while you improve comfort and indoor air quality. Incentives are available for a variety of projects to improve the efficiency of HVAC systems. Chiller optimization projects are long-term solutions that larger hospitals can take advantage of. By installing central chiller plants that feed multiple buildings across your hospital's campus, you can significantly reduce your energy demand. In long-term care facilities, room and receptacle HVAC controls can eliminate

power to guestrooms that have packaged terminal air conditioning units during unoccupied times, reducing energy use and saving money.

Also, conducting regular maintenance on your HVAC systems ensures that energy efficiency components are operating at peak performance. Implementing several low-cost and relatively simple operations improvements can effectively reduce a building's energy use.

**Through building tune-up services, hospitals can keep their buildings' electrical, mechanical and control systems running efficiently.** Through building tune-up services, BGE offers healthcare facilities a great opportunity to reduce energy use, minimize operations and maintenance costs, and improve employee and patient comfort. The most cost-effective building tune-up projects are typically in energy-intensive buildings such as hospitals and laboratories. With a small building tune-up, you can incorporate low- or no-cost energy improvements into major renovations, including replacing air filters, cleaning evaporator and condenser coils, and adjusting air handling and HVAC systems. For larger and high-rise buildings, a large building tune-up involves analyzing building automation systems with digital controls in place. Completing a tune-up can result in energy savings of up to 15% and often provides a simple payback period of less than 1 year.

### Learn More

Contact us today to learn how the BGE Smart Energy Savers Program can help you maximize your healthcare facility's energy efficiency, simultaneously reducing costs and contributing toward your bottom line.

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<sup>1</sup> [http://www.energystar.gov/ia/business/healthcare/factsheet\\_0804.pdf](http://www.energystar.gov/ia/business/healthcare/factsheet_0804.pdf)  
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