

Fact Sheet: Nonprofit

BGE Smart Energy Savers Program®



Nonprofit organizations in the United States, including museums, foundations, trade and charitable associations and houses of worship could save a total of nearly \$315 million and more than 1.8 billion kilowatt-hours of electricity by cutting their collective energy use by just 10%.¹ Increasing the energy efficiency of your nonprofit's operations can yield significant savings that will help put the money where you need it most—back into your organization.

The BGE Smart Energy Savers Program offers a variety of energy efficiency programs that can help nonprofit organizations of all varieties adopt energy-saving solutions like these:

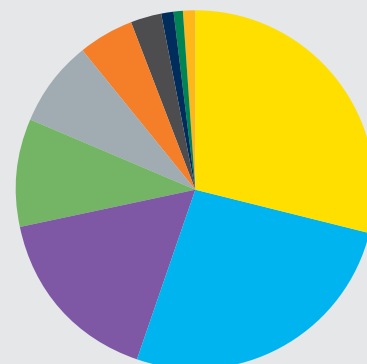
- Retrofit or delamp existing fluorescent fixtures by installing reduced-wattage T5 or T8 fluorescent lamps and ballasts. This will reduce energy costs and often improve lighting quality at the same time.
- Install occupancy sensors to reduce your lighting-related energy consumption in unoccupied spaces. This can result in energy savings up to 60% on lighting.
- Install smart power strips to reduce or eliminate “phantom” loads from computers and office equipment, and cut your facility's plug load energy usage by up to 5%.
- Replace old, inefficient exit signs with LED models to cut related energy use by up to 95% and minimize ongoing maintenance costs.
- Replace kitchen and refrigeration equipment, such as ice machines and reach-in refrigerators and freezers, with energy-efficient models to reduce related energy consumption by up to 10%.
- Reduce your energy use for heating and cooling and improve comfort at the same time by tuning up your heating, ventilation and air conditioning (HVAC) systems.

How Is BGE Helping Nonprofit Organizations?

The BGE Smart Energy Savers Program provides expert advice and financial incentives to reduce the upfront costs associated with energy efficiency projects that can help nonprofit organizations cut costs. Incentives are available for lighting retrofits, occupancy sensors, smart power strips, tune-ups of existing HVAC equipment or installation of new HVAC equipment.

Lighting systems account for approximately 27% of electric use for many nonprofit organizations. Incentives are available to retrofit or replace older, inefficient lighting throughout your facility with options

Typical Energy Use in Nonprofit Organizations



Miscellaneous	30%
Lighting	27%
Cooling	17%
Refrigeration	10%
Ventilation	8%
Heating	5%
Cooking	3%
Computer	1%
Water Heating	1%
Office Use	1%

Simple Solutions for Nonprofit Organizations

- Ensure that power management settings are enabled on computers and monitors, forcing them to enter sleep mode after a specified period of inactivity.
- Use occupancy sensors in bathrooms and offices to keep lights off when not in use.
- Install energy-efficient ice machines to reduce electric energy consumption.
- Retrofit parking garage fixtures with new LED lighting to create a brighter and safer environment.



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that not only offer immediate energy savings, but also improve overall lighting quality. Since high-efficiency lighting typically produces less waste heat, a lighting retrofit project can potentially reduce your cooling load and costs as an added benefit.

- For smaller nonprofits, incentives available through BGE's Small Business Energy Solutions Program can cover up to 80% of the cost of energy-efficient lighting upgrades and installation of occupancy sensors. Many of these small offices are still using inefficient T12 lighting fixtures and may be able to replace those with high-efficiency T8 or T5 alternatives, resulting in payback in less than 1 year. Replacing outdoor and parking lot lighting with high-efficiency LED fixtures reduces operating costs even more.
- For larger nonprofits, retrofitting existing lighting fixtures with energy-efficient, advanced fluorescent alternatives can improve lighting quality and control glare in over-lit spaces. With available incentives for delamping up to \$60 per fixture, a typical nonprofit could realize lighting-related energy savings of 40% and payback in less than 1.5 years.
- Installing occupancy sensors in restrooms, private offices and storage areas is another excellent way to save energy. Occupancy sensors reduce energy use by turning lights off in spaces when they are unoccupied. For example, an occupancy sensor installed in a typical office restroom can yield lighting energy savings of 60% or more.² With incentives ranging from \$25 to \$75 per sensor, payback typically occurs within 2 years. A typical nonprofit office building with 12 private offices could qualify for \$300 in incentives for installing wall switch replacement occupancy sensors.

HVAC systems can account for 30% of a nonprofit organization's annual energy usage. Efficiency improvements can mean big savings on your energy costs, while improving comfort and the quality of indoor air. Incentives are available for replacing inefficient HVAC systems including air-cooled unitary A/C and split systems, air-to-air heat pump systems and water source heat pumps. For many nonprofit facilities, variable frequency drives (VFDs) are a popular HVAC incentive option. Adding a VFD to an existing pump or fan

effectively saves energy without having to spring for the cost of replacing an entire system. VFDs are among the most popular HVAC upgrades, offering incentives that can cover up to 50% of the cost, and paybacks typically within 2 years.

Also, performing regular maintenance on your HVAC system ensures that energy efficiency components are functioning at peak performance. Implementing several low-cost and relatively simple operations improvements can effectively reduce a building's energy use. Building tune-up and system improvements include relocating or installing sensors, optimizing the static pressure set point and repairing the economizer dampers. Completing a building tune-up can result in energy savings of up to 15% and often provides a payback period of less than 1 year.

Commercial plug load equipment, such as smart power strips, occupancy sensors and vending machine controls, is another popular type of energy-saving measure for nonprofit organizations.

Using commercial plug load controls to power down computers and lights when not in use is a low-risk opportunity to save up to 5% on annual electric costs. Available incentives can cover 50% to 75% of upgrade costs. For example, a typical smart power strip costs \$25 but is eligible for a \$10 incentive, which cuts the cost by 40%.

Learn More

Contact us today to learn how the BGE Smart Energy Savers Program can help you maximize your nonprofit organization's energy efficiency, simultaneously reducing costs and putting money directly back into supporting your mission.

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¹ energystar.gov

² <http://www.lrc.rpi.edu/resources/pdf/dorene1.pdf>

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