

## ***PROJECT HIGHLIGHTS***

This project not only improves energy efficiency, but will also make BSC a more comfortable place to live, work, and benefit the environment. This project will impact just about every building on campus. Some of the work will be quite visible, including:

### **Energy Efficient Lighting**

BSC has over ten thousand light fixtures across the campus, and the majority of them will either be retrofitted with more efficient lamps or be replaced entirely with more efficient fixtures. Automatic lighting controls will also be installed in many areas. These controls will automatically turn off lights if nobody is in the room, significantly reducing their operating hours and energy use.

### **Water Conservation**

BSC consumes over 35 million gallons of water per year. About two thirds of it is used for toilets, showers, urinals, and sinks. By installing low-flow fixtures, BSC will save 9 million gallons per year.

### **Hunt Hall Window Replacement**

Hunt Hall is one of our oldest buildings. As part of this project, the windows in Hunt Hall will be replaced with high efficiency, double-pane windows that will save energy and improve the comfort of the classrooms by eliminating leaks and reducing drafts. Hunt Hall will also receive new, energy efficient boilers as part of this project.

### **Replacement of Ventilation Units in Kelly Gym**

The ventilation systems in the large and small gyms at the Kelly Gym have been in poor condition for many years. New ventilation units will efficiently provide fresh air to the gyms, making them more comfortable to use. The new units will also be easier to service, ensuring that they last for many years.

## ***QUESTIONS***

We appreciate your patience and understanding as we perform this work to make Bridgewater State College a better place to live, work, and a better member of the community.

During this time, you will see contractors around campus retrofitting lighting and doing other work. BSC's Facilities Management and Planning Department will be working with all departments to provide notice when work will be occurring in your area. Great effort is being taken to minimize any inconvenience to student, faculty, or staff.

**If you have any questions, please contact:  
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Select Energy Services, Inc.  
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## ***Energy and Water Conservation Project***

**Provided by:**

**Ameresco, Inc.  
(Formerly Select Energy Services, Inc.)  
Framingham, MA**

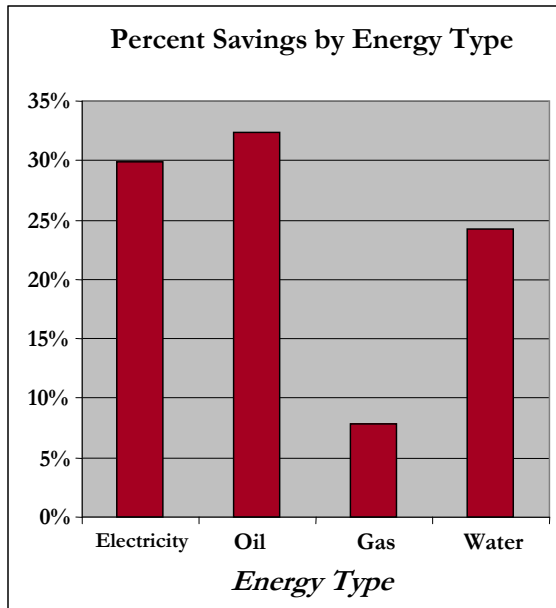
## OVERVIEW

Between March 2006 and June 2007, Select Energy Services will be installing \$11 million worth of energy efficiency improvements around the Bridgewater State College campus that will save over \$ 950,000 per year in energy or about 25% of BSC's energy bill. This project is being performed under the State's Energy Performance Contracting Program. The program allows BSC to pay for the cost of the project out of the energy savings. The project is financed over a period of twenty years and Select Energy Services guarantees the energy savings.

### Energy Savings

The energy savings from this project will be substantial, about a 25% reduction in the annual energy bill. Total energy savings by units will be:

|                  |                      |
|------------------|----------------------|
| Electricity:     | 4,769,996 kWh/yr     |
| Boiler Fuel Oil: | 344,294 gallons/yr   |
| Natural Gas:     | 33,253 ccf/yr        |
| Water/Sewer:     | 9,274,311 gallons/yr |



This project will significantly reduce air emissions from the Campus Power Plant.

### Environmental Benefits

This project will improve the quality of life at BSC while also doing our part to help the environment. The energy efficiency improvements will reduce the amount of oil and natural gas we burn on campus and the amount of electricity we buy, which in turn reduces power plant pollution. The annual benefit to the environment includes:

- ⇒ Reducing Carbon Dioxide (CO<sub>2</sub>) emissions by over 6.1 million lbs/yr
- ⇒ Reducing Sulfur Dioxide (SO<sub>2</sub>) emissions by over 23,500 lbs/yr
- ⇒ Reducing oxides of Nitrogen (NO<sub>x</sub>) by over 8,100 lbs/yr

## BEHIND THE SCENES

Most of the work performed under this project will not be seen by most faculty, staff, or students as the equipment is concealed under equipment covers or located in the building's service areas. However, this

work will make BSC a more comfortable place to work and learn. These improvements include:

### Replacement of Radiator Valves

BSC has hundreds of radiators in residence hall rooms and offices, many of which overheat the rooms due to their poor condition. Under this project, the faulty valves will be replaced providing a more comfortable space and eliminating the need to open windows in the winter to cool the rooms.

### Energy Management System and Controls Upgrade

This major upgrade will allow BSC to better manage its energy use and will significantly improve the level of comfort control. It will also allow our technicians to quickly address any comfort control complaints they might receive.

### Underground Piping Replacement

Under this project, the main steam lines coming out of the West Campus Power Plant will be replaced out to Park Street. These pipes are over 40 years old, and their replacement will help insure the West Campus buildings to have a reliable supply of heat for many years into the future.

### Cogeneration

Clean burning natural gas will generate both electricity and hot water for the Tinsley Center using an engine similar to the one in your car. The simultaneous generation of heat and power is highly efficient and will help BSC reduce utility costs.

