

WATTSTOPPER®

Application Type: Commercial
Location: Washington, D.C.
Certification: LEED Platinum 2009
Project Scope: U.S. Green Building Council headquarters



CASE STUDY

PROFILE

The U.S. Green Building Council (USGBC) headquarters in Washington, D.C. serves as a living lab through its sophisticated and advanced sustainable building design and technology. The headquarters is used to educate thousands of visitors annually on sustainable building design. It was the first building project to achieve certification under the 2009 version of LEED for Commercial Interiors. The headquarters has since achieved LEED for Existing Buildings: Operations & Maintenance in December 2010.

THE CHALLENGE

In 2014, USGBC sought a controls system that was easy to interact with, could improve energy efficiency, and also provide visibility when the office space was not operating at the most efficient level.

THE SOLUTION

The team at USGBC took an innovative and occupant-centric approach to lighting and plug load controls to maintain their standing as a LEED Platinum certified office space. To meet their needs, USGBC selected Legrand's Wattstopper Digital Lighting Management (DLM) system - an intelligent, distributed control system that automatically maximizes lighting levels and energy efficiency throughout a building.

"The DLM system offered the best opportunity to meet our energy efficiency and sustainability goals," according to Melanie Mayo-Rodgers, USGBC Facility Manager. "It allows for flexibility with different tenants, offers reliability, lighting control efficiency, and interfaces with our HVAC system to lower electrical consumption and offer additional energy savings."

KEY BENEFITS

- 34% reduction in energy use in the first year.
- Real time collection and analysis of data that allows USGBC to quickly address areas where energy efficiency requires improvement.
- Remote troubleshooting through flexible digital components that can be programmed via computer, handheld wireless programmers, or at the device level.
- Ability to schedule areas in the office space that do not have sensors with specific shutdown schedules (hallways, lobbies, etc.) to reduce energy waste when spaces are not being utilized.
- Integration with the building management system which allows occupancy sensors to maximize energy savings by controlling heating and cooling in vacant spaces.
- With the capability to easily schedule and segment lighting controls, USGBC and their tenants achieve desired lighting levels necessary for the space requirements while still maintaining the highest level of energy efficiency.



VERTICAL MARKET

Commercial Building



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