CASE STUDY

National Park Service, Seattle, WA

Innovative Desktop Lighting and Equipment Control Meets Energy Conservation Goals for National Park Service

With an innovative lighting and desktop plug load control set-up, the National Park Service (NPS) energy efficiency goals were easily met. The controls, which include The Watt Stopper's plug load controls, save energy, improve lighting quality, and offer greater individual occupant control.

Before the retrofit, the NPS offices in Seattle, WA, used inefficient overhead T12 fluorescent fixtures. In addition, desktop equipment, such as radios, computer monitors and calculators, often stayed on regardless of occupancy.

The office sought an environmentally responsible desktop lighting and equipment control solution to help keep building operating costs down and to avoid wasting energy.

The solution combined Isolé IDP-3050 surge suppressing plug load controls from The Watt Stopper and energy efficient Berkeley Lamps from Light Corporation. Along with Light Corporation, the Lawrence Berkeley National Labs played an instrumental role in the overall design of the Berkeley lamp. Together, the products work to provide ample illumination and energy savings at each desktop.

The Isolé control includes a personal occupancy sensor that signals the Berkeley Lamp and other designated desktop equipment to turn off after a user-defined period of vacancy. The power strip features eight outlets, six controlled by the personal sensor and two uncontrolled for equipment employees do not want shut off, such as CPUs.

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Steve Butterworth
Regional Energy Manager
National Park Services

NPS installed the products in open bay areas, cubicles and private offices. A total of 80 Isolé units and Berkeley lamps cover approximately 46,000 square feet of office space.

Based on previous use of Watt Stopper products, Steve Butterworth, Regional Energy Manager at NPS, knew the company could help meet his energy conservation goals. Butterworth said, "I've had experience using The Watt Stopper's occupancy sensors and had great results and energy savings."

The project cost a total of $16,000, and the organization expects a quick payback.

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Project managers are happy with the results in the Seattle offices, and they plan to add these lamps and plug load controls in office spaces across the region. Also, the project is being replicated at other national parks offices in Golden Gate, Yosemite, Death Valley, and other locations.

The National Park Service preserves unimpaired the natural and cultural resources and values of the national park system for the enjoyment, education, and inspiration of this and future generations. The Park Service cooperates with partners to extend the benefits of natural and cultural resource conservation and outdoor recreation throughout this country and the world.