

CASE STUDY

GRAND CANYON ASSOCIATION



"Lighting Revolution" a Reality for Grand Canyon Association Facilities

The Scenario

As part of a series of Green Initiatives planned by Grand Canyon Association (GCA), Verkamp's Visitor's Center and Kolb Studio were in need of a lighting upgrade. Grand Canyon Association wanted to upgrade their existing halogen light bulbs in both locations for energy cost savings. The facilities manager recognized the positive results in upgrading to more energy-efficient lighting.

The Results

Verkamp's Visitors Center replaced 99 halogen track lights totaling 6,325 watts with only 67 LED bulbs totaling only 878 watts of energy. Based on the total lumen output and focused beam spread, GCA was able to install fewer bulbs and use 86% less energy. In addition, the new LED bulbs operate at around 95 degrees, far less than the 220 degrees of the old halogen bulbs- resulting in reduced cooling costs for the center.

The installation will pay for itself in less than 1 year and the LEDs are rated to last 50,000 hours- or over 10 years of use in the facility (at 12 hours/day). Also, Grand Canyon Association will greatly reduce labor costs as a result of the long-life LED bulbs.

Kolb Studio converted 119 halogen light bulbs to new energy-efficient LED going from 7,200 watts to 1,300 watts of energy. That's an 82% reduction in energy use and the area is visibly brighter. Utility rebates reduced the cost of the project by 50% for even greater savings and a less than 2 year return on investment.



- Replaced 218 Halogens with LEDs



- Utility rebates reduced the cost of the project by 50%



- 84% energy use decrease

CASE STUDY

GRAND CANYON ASSOCIATION

The Solution

Bulbs.com provided a certified Lighting Specialist to work with GCA's Facilities Manager through every step of the project. Our expert knowledge of reliable, name brand LED products and research of local utility rebate programs helped to make this a smooth and relatively fast transition to energy-efficient lighting.

Available rebates with their utility provider, Arizona Power Supply (APS) made the switch to LED a financially manageable option for the nonprofit.

About the Company



**Grand
Canyon
Association**

Grand Canyon Association (GCA) is the official nonprofit partner of Grand Canyon National Park, raising private funds to benefit Grand Canyon National Park, operating retail shops and visitor centers within the park, and providing premier guided educational classes, hikes, and tours about the natural and cultural history of the region.

Verkamps Visitor's Center is located in one of the canyon's oldest buildings and includes an exhibit venue, information desk, and bookstore.

Kolb Studio was built in 1904 and sits at the edge of Grand Canyon. It is open year-round and contains an exhibit venue, bookstore, and information center.

About Bulbs.com

Bulbs.com, headquartered in Worcester, Mass., is a leading online lighting supplier. Established in August 1999, Bulbs.com provides lighting products to over 125,000 commercial customers operating across 300,000 locations in the hospitality, retail, property management, education, healthcare, manufacturing and municipal sectors. For more information visit Bulbs.com. To speak with one of our lighting specialists, call 888-455-2800.

The Challenges

- Existing track lighting systems with halogen lamps consumed a lot of electricity.
- Halogen lamps put off a lot of heat which can contribute to greater HVAC cooling costs.
- Upfront costs to upgrade a facility to LED can be costly.
- Halogen lamps have a shorter life span- labor can be costly, especially in hard to reach areas.

