



## CASE STUDY: PEPPERMILL RESORT SPA CASINO

### Cold Cathode CFLs Warm Peppermill's Green Initiative

Guests at the Peppermill Resort Spa Casino in Reno, Nevada, have many choices. The resort features nine restaurants, 16 bars and lounges, a pool, spa, entertainment, and of course, the casino. While committed to maintaining a high level of service for its guests, the Peppermill also strives to minimize the resort's impact on the environment by adopting a policy of green initiatives to encourage energy conservation and sustainability.

Peppermill's engineering staff director recognized an opportunity to contribute to that effort by replacing inefficient incandescent lamps in the events center with new energy-saving technology. Using incentives from NV Energy, the Peppermill converted more than 2,000 60-watt incandescent lamps to 8-watt cold cathode compact fluorescent lamps (CFLs) in the 106,000-square-foot events center.

## LEARN MORE

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## More about this project...



### Project Summary

CFLs use about 75% less energy than incandescent lights and last six to 10 times longer. CFLs are relatively inexpensive and easy to install, but some products can burn out quickly if turned on and off frequently and do not reach full brightness for several minutes. In addition, some CFLs do not perform as well in cold temperatures.

Cold cathode CFL technology improves on the standard CFL efficiency by emitting electrons without having to be heated. This gives the cold cathode CFL several advantages:

- Longer product life
- Instant on
- Excellent operation in cold conditions
- Full dimming capability
- Ability to flash quickly on and off

Facilities typically only need to replace cold cathode CFLs every 10 to 20 years, adding maintenance savings to its list of benefits. The Peppermill is extremely pleased with the appearance and performance of the cold cathode CFLs—and is proud to have taken one more step to reduce the resort's carbon footprint.



### Energy-saving Equipment

As a result of the lighting retrofit, Peppermill Resort Spa Casino can expect energy savings of more than 415,000 kWh annually and will realize an overall annual energy cost savings of approximately \$40,000.



### Project Results

**Building Type:** Hotel/Casino

**Project Type:** Retrofit

**Measures:** Lighting

**Incentive:** \$13,055

**Projected Annual kWh Savings:** 415,974