



CASE STUDY: NUGGET CASINO RESORT

LED Lighting Retrofit Brightens Casino

Nugget Casino Resort in Sparks, Nevada, consists of more than 1,500 guest rooms, 110,000 square feet of meeting space, nine restaurants, an Olympic-size swimming pool and many other guest amenities. The property has a full-service casino offering 24-hour gaming, including blackjack, roulette, craps, Keno, bingo and a smoke-free poker room.

The casino converted a total of 5,372 incandescent lamps (11-watt and 5-watt) to 1-watt LED lamps, and the total project cost was \$74,630. The casino received an incentive from NV Energy, and will continue to benefit from long-term savings.



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Project Summary

LEDs emit narrow-spectrum light from a semiconductor and are small in size. An LED lamp looks similar to an incandescent lamp, puts out the same amount of light and is the same color but uses a fraction of the energy. Because of the low energy use, LED lamps are cooler in temperature than incandescent bulbs, which also helps save on air-conditioning costs.

The life expectancy of LEDs is rated at 100,000 hours compared to 2,000 for an incandescent lamp. The longer life also saves on maintenance costs, which is an important factor since the casino's lights operate 24 hours a day, seven days a week.



Energy-saving Equipment

As a result of the lighting retrofit, the Nugget Casino Resort can expect energy savings of more than 244,000 kWh and a reduction in peak demand of about 28 kW annually. The electricity savings enabled the facility to realize an overall annual cost savings of approximately \$26,800.



Project Results

Building Type: Casino

Project Type: Retrofit

Measures: Conversion of incandescent lamps to LED lamps

Incentive: \$10,123

Projected Annual kWh Savings: 244,422