



case study: ESCALATOR

Bellagio Hotel and Casino



**Bellagio Hotel and Casino
Las Vegas, Nevada**

Application: Escalator
Motor Size: 20HP
Average Savings: 37.14%
Annual Savings: \$2,131.70
Power Rate: \$0.09/kWh
Annual CO2 Reduction: 18 tons
Internal Rate of Return: 73%*

* IRR does not include unit installation costs

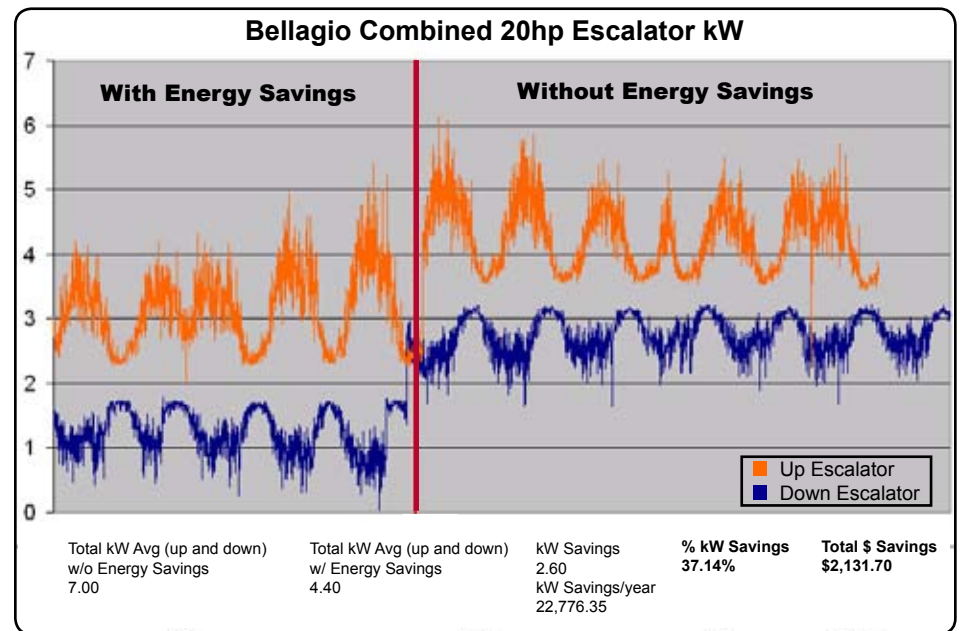
TEST SUMMARY

An energy savings test was performed on two 20 HP escalators (one up, one down) at the Bellagio Hotel and Casino. The test was monitored by Nevada Power, the electric utility for Southern Nevada.

A power meter was installed on 6/28/06 to collect data with the motor efficiency controllers "on". On 7/3/06 the motor efficiency controllers were turned "off". On 7/10/06 the data was collected, the meters removed, and the motor efficiency controllers were turned back on.

Power Efficiency's motor efficiency controller lowered the average kW used on the escalators from 7.00 kW to 4.40 kW for a 37.14% average power savings and an estimated annual cost savings of \$2,131.70.

The following graph represents the kilowatt usage of the escalators over a period of 12 days. 7 days without the energy savings activated and 5 days with the energy savings activated.



Estimated annual energy and demand-charge cost savings are based on Nevada Power calculations. Estimates are based on facility operations of 24 hours per day, 7 days a week (8,760 hours/year).

Expected Product Life Savings

Product Life: 15 years
kWh Savings: 341,520 kWh
Cost Savings: \$44,217*
CO2 Reduction: 265 tons

* Expected life cost savings is based on a 5% annual increase in cost of power