



case study: ESCALATOR

Caesars Palace Hotel and Casino



Caesars Palace Hotel & Casino
Las Vegas, Nevada

Application: Escalator
 Motor Size: 40HP
 Average Savings: 35.75%
 Annual Savings: \$3,062.49
 Power Rate: \$0.08/kWh
 Annual CO2 Reduction: 29 tons
 Internal Rate of Return: 59%*

* IRR does not include unit installation costs

Expected Product Life Savings

Product Life: 15 years
 kWh Savings: 574,215 kWh
 Cost Savings: \$66,084*
 CO2 Reduction: 445 tons

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

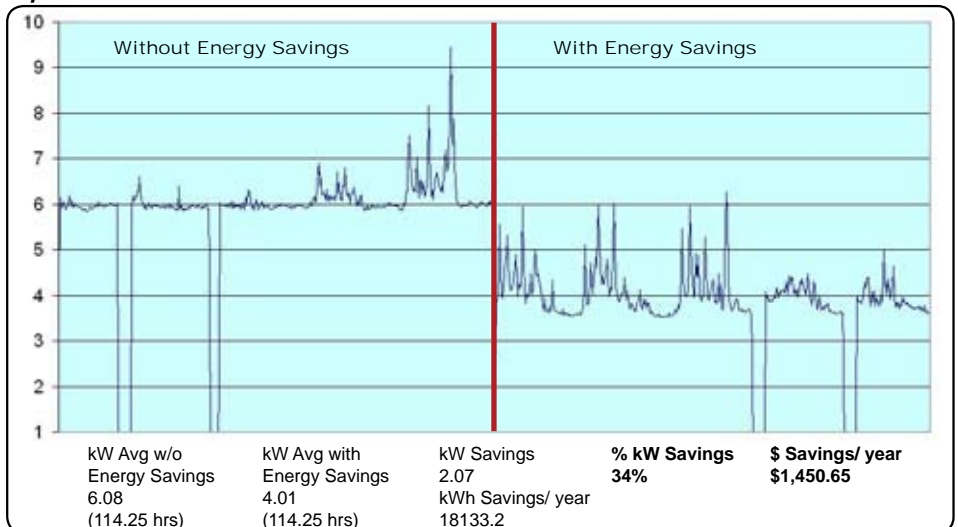
TEST SUMMARY

An energy savings test was performed on two 40HP escalators (one up, one down) at Caesars Palace Hotel and Casino in Las Vegas, Nevada. The test was monitored by Nevada Power, the electric utility for Southern Nevada.

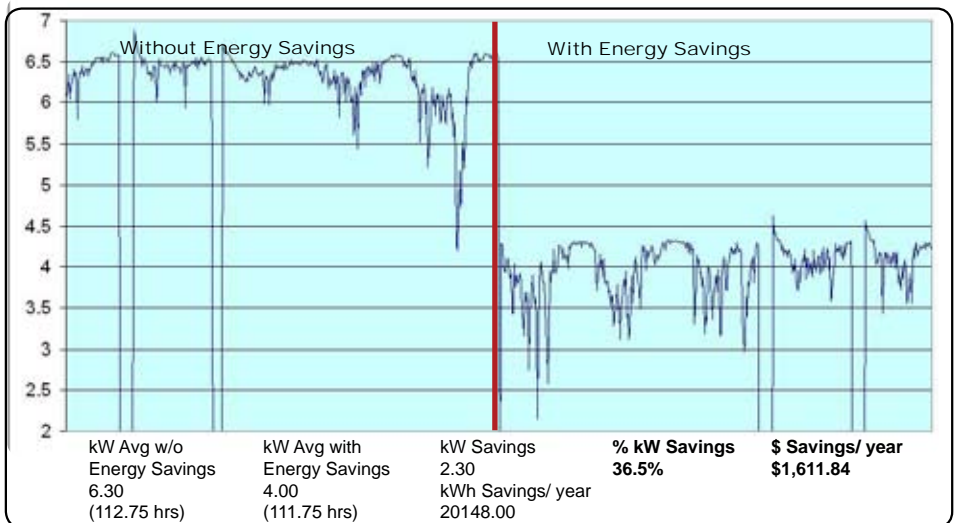
Power Efficiency's motor efficiency controller lowered the average kW used on the "Up" escalator from 6.08 kW to 4.01 kW for a 34% power savings. The average kW on the "Down" escalator went from 6.08 kW to 4.00 kW for a 36.5% power savings.

The following graphs represent the kilowatt usage of the escalators over a period of 10 days. 5 days without the energy savings activated and 5 days with energy savings activated.

Up Escalator kW



Down Escalator kW



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).