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case study: **ESCALATOR**

Stratosphere Hotel and Casino
May 2006

Stratosphere Hotel and Casino
Las Vegas, Nevada
May 2006

15hp Escalator
29.7% average power savings
$826.94 annual savings
(.08/kWh)

TEST SUMMARY

Two 15 Hp Power Efficiency motor efficiency controllers were installed on May 8, 2006 on two escalators (one up and one down). The escalators are located between the casino and the parking garage.

Once installed, the motors were started to check rotation and to set the motor efficiency controllers on. At that time, a power meter* was installed to track the line voltage, current, kW, PF, KVA and KVAR. The power saving setting was set to 0 to collect "baseline data" for one week. The motor efficiency controller was engaged on May 15 to collect data with the energy savings on for one week. It was noted that the total current went from approx. 14.9 Amps per phase to approx. 6.8 Amps per phase on the Up escalator and from approx 15.9 Amps per phase to approx. 6.5 Amps per phase on the Down escalator.

Power Efficiency's motor efficiency controller proved to lower the average kW used on the up escalator from 2.05kW to 1.50kW for a 26.83% power savings and annual cost savings of $385.44. The average kW on the down escalator went from 1.93 kW to 1.30 kW for a 32.6% power savings and annual cost savings of $441.50.

The following graphs represent the kilowatt usage of the escalators over a period of 14 days. Seven days without the energy saving feature engaged and seven days with the energy saving feature engaged.

Up Escalator Annual Savings

WITHOUT ENERGY SAVINGS

Avg. kW x 8760 hrs / yr	2.05 x 8760
Annual kWh Use	17,958
Annual kWh x Cost / kWh	17,958 x 0.08
Annual kWh Cost	$1,436.64

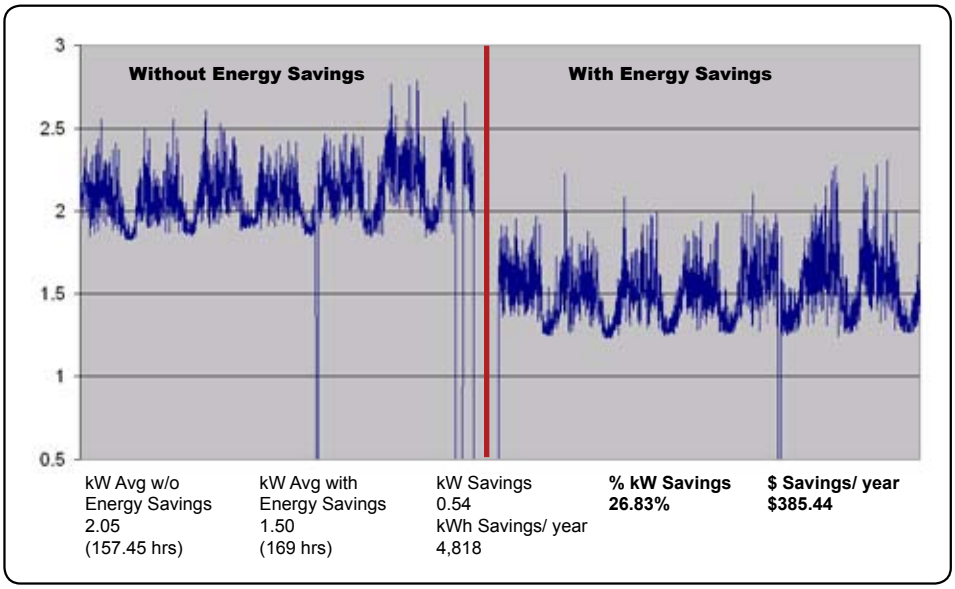
WITH ENERGY SAVINGS

Avg. kW x 8760 hrs / yr	1.50 x 8760
Annual kWh Use	13,140
Annual kWh x Cost / kWh	13,140 x 0.08
Annual kWh Cost	$1,051.20

ANNUAL SAVINGS

% kW Savings	26.83%
kWh Savings	4,818
Cost Savings	$385.44

Up Escalator kW



*The Power Meter used is a Dent Instruments Elite PRO Recording Poly Phase Power Meter, the same meter used by Nevada Power.

Down Escalator Annual Savings

WITHOUT ENERGY SAVINGS

Avg. kW x 8760 hrs / yr	1.93 x 8760
Annual kWh Use	16,906.80
Annual kWh x Cost / kWh	16,906.80 x 0.08
Annual kWh Cost	$1,352.54

WITH ENERGY SAVINGS

Avg. kW x 8760 hrs / yr	1.30 x 8760
Annual kWh Use	11,388
Annual kWh x Cost / kWh	11,388 x 0.08
Annual kWh Cost	$911.04

ANNUAL SAVINGS

% kW Savings	32.6%
kWh Savings	5,518.80
Cost Savings	$441.50

Down Escalator kW