

## Sam's Town Hotel and Casino April 2006



**Sam's Town Hotel and Casino  
 Las Vegas, Nevada  
 April 2006**

**15hp Escalator  
 36.45% power savings  
 \$1,366.57 annual savings  
 (.08/kWh)**

### Up Escalator Annual Savings

#### WITHOUT ENERGY SAVINGS

Avg. kW x 8760 hrs / yr	3.02 x 8760
Annual kWh Use	26,455.20
Annual kWh x Cost / kWh	26,455.20 x 0.08
Annual kWh Cost	\$2,116.42

#### WITH ENERGY SAVINGS

Avg. kW x 8760 hrs / yr	1.80 x 8760
Annual kWh Use	15,678
Annual kWh x Cost / kWh	15,678 x 0.08
Annual kWh Cost	\$1,261.44

#### ANNUAL SAVINGS

% kW Savings	40.4%
kWh Savings	10,777.20
Cost Savings	\$854.98

### TEST SUMMARY

Two 15Hp Power Efficiency motor efficiency controllers were installed on March 14, 2006 on two escalators (one up and one down) leading to Shepler's Western Apparel.

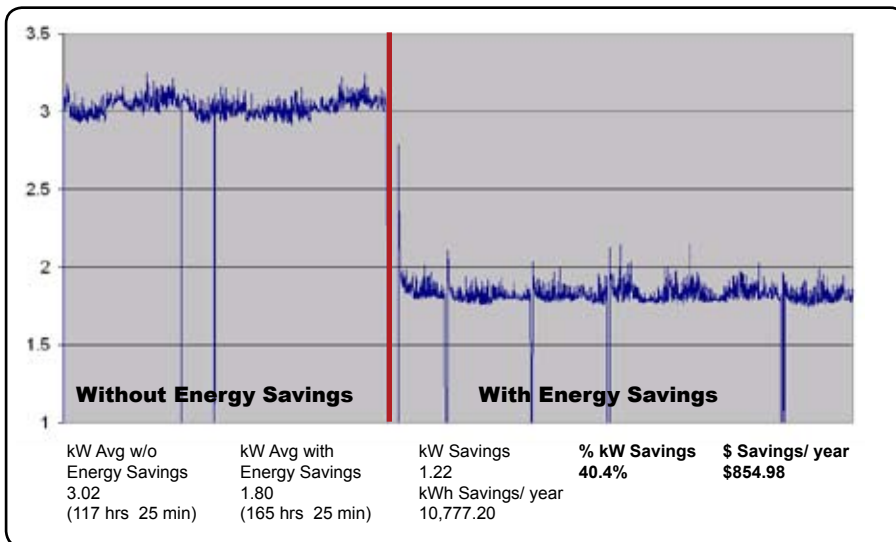
Once installed, the motors were started to check rotation and to set the motor efficiency controllers on. At that time, a power meter\* was installed to track the line voltage, current, kW, PF, KVA and KVAR and the power saving setting was set to 0 to collect "baseline data" for one week. The motor efficiency controllers were set on 3/21 and it was noted that the total current went from approximately 22 amps to less than 10 amps on the "Up" escalator and from approximately 18 amps to less than 10 amps on the "Down" escalator.

Testing was restarted on 4/13 for the benefit of the Nevada Power Surebet program. Final testing was completed on 4/25 with no power saving on for approximately 5 days and power savings on for approximately 7 days.

It was found that Power Efficiency's motor efficiency controller was able to lower the average kW used on the "Up" escalator from 3.02kW to 1.80kW for a 40.4% power savings and annual cost savings of \$854.98. The average kW on the "Down" escalator went from 2.26 kW to 1.53 kW for a 32.3% power savings and annual cost savings of \$511.59.

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

#### 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    2.26 x 8760  
 Annual kWh Use            19,797.60  
 Annual kWh x Cost / kWh   19,797.60 x 0.08  
 Annual kWh Cost            \$1,583.81

**WITH ENERGY SAVINGS**

Avg. kW x 8760 hrs / yr    1.53 x 8760  
 Annual kWh Use            13,402.80  
 Annual kWh x Cost / kWh   13,402.80 x 0.08  
 Annual kWh Cost            \$1,072.22

**ANNUAL SAVINGS**

% kW Savings              32.3%  
 kWh Savings                6,394.80  
 Cost Savings                \$511.59

**Down Escalator kW**

