



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

**15hp Escalators  
 36.45% average power savings  
 \$685.24 average annual savings**

**TEST SUMMARY**

Two 15Hp Power Efficiency Corp. Power Genius™ units were installed on Mar. 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 soft start on the Power Genius™. 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 energy savings of the Power Genius™ units 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 the Power Efficiency Corp. Power Genius™ was able to lower the average kW used on the "Up" escalator from 3.02kW to 1.80kW for a 40.5% power savings and annual cost savings of \$857.37. The average kW on the "Down" escalator went from 2.26 kW to 1.53 kW for a 32.4% power savings and annual cost savings of \$514.11.

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

**Up Escalator Annual Savings**

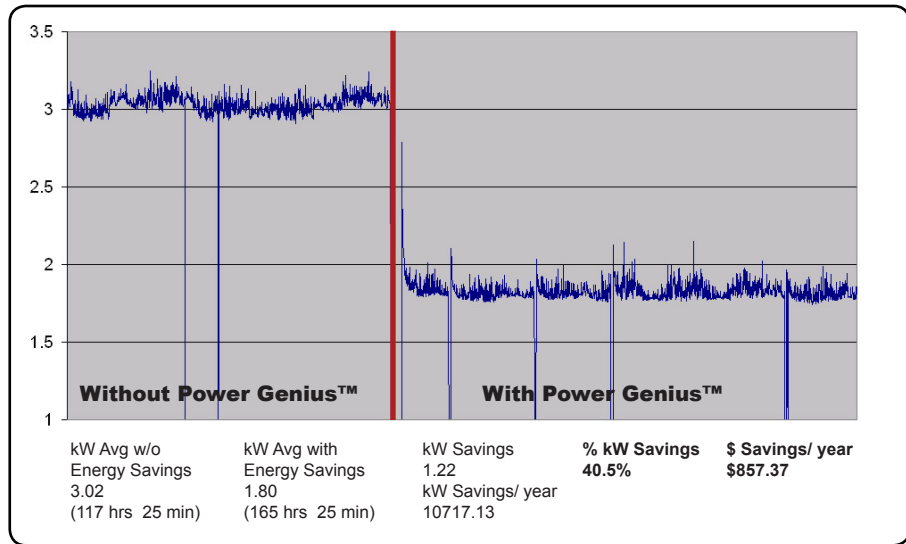
	<b>Avg kW x 8760 hrs/yr</b>	<b>Annual kWH Use</b>	<b>Annual kWH x Cost per kWH</b>	<b>Annual kWH Cost</b>
Without Power Genius	3.02 x 8760	26470.83	26470.83 x 0.08	\$2,117.67
With Power Genius	1.80 x 8760	15753.69	15753.69 x 0.08	\$1,260.30
<b>Annual Savings</b>	<b>40.5%</b>	<b>10717.13</b>		<b>\$857.37</b>

**Down Escalator Annual Savings**

	Avg kW x 8760 hrs/yr	Annual kWH Use	Annual kWh x Cost per kWh	Annual kWH Cost
Without Power Genius	2.26 x 8760	19821.74	26470.83 x 0.08	\$1,585.74
With Power Genius	1.53 x 8760	13395.39	15753.69 x 0.08	\$1,071.63
Annual Savings	32.4%	6426.35		\$514.11

The following graphs represent the kilowatt usage of the escalators over a period of 12 days. 5 days without the Power Genius™ power control and 7 days with the Power Genius™ power control.

**Up Escalator kW Final**



**Down Escalator kW Final**

