



## LED Exit Sign Fact Sheet

Replacing incandescent or compact fluorescent exit signs is a simple means of saving money and energy at your business. Conventional exit signs consume large amounts of electricity and require frequent maintenance and lamp replacement as compared to light emitting diode (LED) or electro-luminescent exit signs. Although the cost of purchasing LED exit signs are typically higher than the traditional alternatives, the savings that result from their extended life and low electricity usage result in payback periods that are usually less than one year.

The most common lighting sources for exit signs are incandescent lamps. These signs typically consume 40W (two 20W lamps) per sign, while LED signs consume less than 5 W per sign. Since exit signs operate all of the time (8,760 hours/year), replacing one incandescent exit sign with an LED model can save over 300 kWh/year.

In addition to electricity cost savings, LED exit signs also require very little maintenance and replacement. LED exit signs can last up to 10 years before needing to be replaced, while the typical incandescent exit sign lamps may be replaced up to 30 times in that same time period.

The following table contrasts the typical costs associated with incandescent and LED exit signs.

### Typical Costs: LED vs. Incandescent Exit Signs

Fixture Type	Typical Wattage	Life (years)	Annual Energy Costs (\$0.09/kWh)	Annual Maintenance Costs	Unit Price (materials only)	10 Year Cost
Incandescent	40 W	0.8	\$31.52	\$19.50	\$25.00	\$535.20
LED	4 W	10	\$3.15	\$0.00	\$45.00	\$76.50

The Nevada Sure Bet Program offers incentives for replacing incandescent exit signs with LED or electroluminescent exit signs. The incentive is \$12.50 per unit, and is meant to help mitigate the upfront cost associated with purchasing the more expensive equipment.

The following table shows an example of the simple payback associated with the purchase of an LED exit sign.

## LED Exit Sign Savings and Simple Payback

	<b>Total</b>
<b>Demand savings</b>	0.04 kW
<b>Annual energy savings</b>	306 kWh
<b>Total project cost<sup>1</sup></b>	\$60
<b>Prescriptive incentive</b>	\$12.50
<b>Annual energy costs savings</b>	\$28
<b>Payback period</b>	1.7 years

---

<sup>1</sup> Installed cost - material cost for a unit is approximately \$40 for a new sign (plus \$20 for labor). Retrofit kits for exit signs installed cost about \$50. If a retrofit kit works, the payback period is reduced to 1.3 years.