



# Ramada Plaza Hotel of Garden Grove – Reduces Lighting Energy Cost by 70%

The Ramada Plaza Hotel, Garden Grove CA management initiated an investigation to find greater energy efficiencies and conservation efforts on their site. The team found that one of the largest energy consumption areas came from indoor lighting. Ramada Plaza Hotel partnered with Gonneville, Inc., a certified Disabled Veterans Business Enterprise (DVBE) and Service-Disabled Veteran-Owned Small Business (SDVOSB), to upgrade their lighting system with efficient LED technology.

Together, Ramada Plaza Hotel and Gonneville built a plan to retrofit all their indoor lights. Upgrading their lighting system from incandescent/CFL/fluorescent with efficient LED lighting reduced energy use, improved the visual environment, and affect the sizing of HVAC and electrical systems to make a positive, long-term financial impact to their organization with a lamp life that is eight times longer than incandescent/CFL/fluorescents. LEDs provided an array of selectable color temperature that delivers consistent color over its lifetime and LEDs greatly reduce maintenance costs associated with conventional systems. The hotel’s maintenance resources are freed up and applied on other tasks to keep their operations running smoothly day and night because the time and labor traditionally dedicated to servicing lamps and ballasts are virtually eliminated. The LED system has a five year unconditional warranty.

The LEDs installed qualified for Southern California Edison (SCE) express solutions rebates.

## Ramada Plaza Hotel GoYg Green

**Before**

**After**

<b>29 lbs. nitrogen oxides</b>	<b>7 lbs. nitrogen oxides</b>
<b>12 lbs. sulfur dioxide</b>	<b>3 lbs. sulfur dioxide</b>
<b>44,908 lbs. carbon dioxide</b>	<b>11,100 lbs. carbon dioxide</b>
<b>5733 Kwh</b>	<b>1417 Kwh</b>

## Ramada Plaza Hotel Savings

Models	Watts	Replacing Lamps	Energy Savings	SCE Express Solutions Incentives
Par 30	13	120 ea. 65W	>70%	\$17.50 ea.
Par 38	19	125 ea. 65W		\$20.00 ea.



Disabled Veterans Business Enterprise (DVBE)  
Service-Disabled Veteran-Owned Small Business (SDVOSB)