

Toyota of Rockwall Case Study

Auto Dealership Case Study, Exterior & Interior Lighting

The situation. Built in 2007 as the world's first LEED Gold Certified Auto Dealership, the ownership has been on the forefront of sustainability and energy-efficiency and was eager to be an early adopter of the Toyota LED program. Our team's challenge was to take this already energy-efficient facility and create an LED lighting package that would enhance the existing energy management solutions, while still providing a sound financial investment (both in additional energy savings and reduced maintenance costs).

The solution. Working with our Toyota Image USA II – LED Program Partners, our team created a more uniform lighting package (with regards to color temperature, fixture types, and light output). For the site lighting, we were able to reduce the overall number of fixture heads from 234 to 74 (as a result of the dynamic performing optics of our premium manufacturer). The savings achieved across the interior, and exterior spaces amounted to a 40% reduction in energy and an annual savings of \$48,240 (energy & maintenance combined). Additionally, the environmental impact is quite significant; 235 Tons of Carbon Dioxide and 2,718 kilograms of Sulfur Dioxide eliminated annually



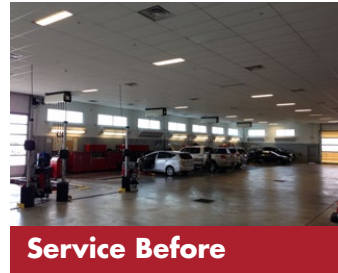
Inventory Lot Before

234 Metal Halide Fixtures



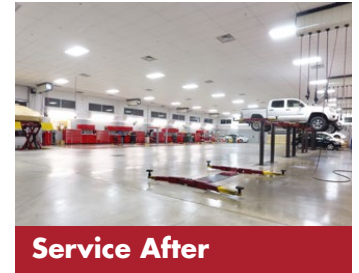
Inventory Lot After

74 LED Fixtures



Service Before

Fluorescent Fixtures



Service After

LED Fixtures

LEED Gold Texas dealer taxes advantage of new LED Lighting Upgrade component of the Toyota Image USA II Program.

“A significant improvement in our service areas, showroom and inventory lot.”

—Don Maddran, Service Manger, Toyota of Rockwall (Rockwall, Texas)

ANNUAL SAVINGS
\$48,240

ROCKWALL PROJECT DETAILS

Building Type	Improvement	kWh Saved	kW Saved	% Reduction	Annual Savings
Exterior Site Lighting	Installed New LED fixtures with a Customized Controls Package. Reduced the number of fixtures needed to achieve better light output.	148,587	33.9	40%	\$30,710
Interior Lighting	Installed Energy Efficient Fixtures (LED)	112,829	25.8	39%	17,530

Total Savings 246,416 59.7 39.5% \$48,240