

Energy Efficiency Case Study

Energy Procurement Process

Preliminary Data Collection and Facility Audit

First an initial collection of information and utility data is gathered and analyzed. Next a complete audit of existing energy systems is performed.

Sample Installation: Measurement and Verification

Solutions are discovered and presented. Sample test locations are then identified and installed. This allows for demonstration of savings and ensures customer satisfaction of performance.

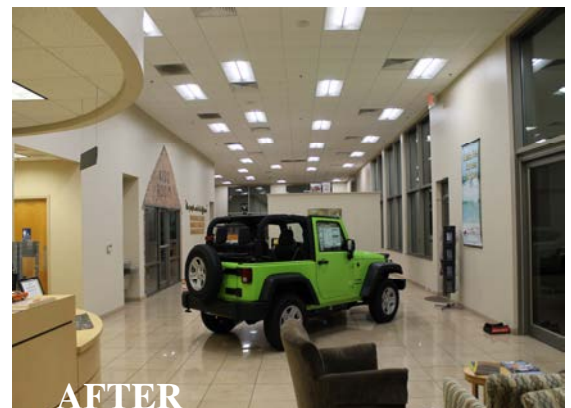
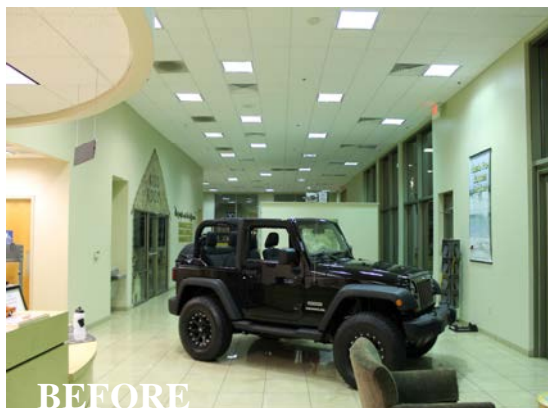
System Integration

Energy Efficiency Measures are then installed on schedule without hindrance to the customers day to day operations. Savings are realized, tracked and verified through energy management software.



Gulf Chrysler Dodge Jeep Auto Dealership

Gulf Chrysler Dodge Jeep is a family owned dealership located in Foley, Alabama. Through a comprehensive energy audit it was determined Gulf Chrysler could save a tremendous amount of energy through upgrading lighting systems throughout the entire facility, as well as implementing line conditioners on the HVAC units. The project was financed through AlabamaSAVES, which is a state program offering 1% capital to companies for energy efficiency upgrades. The program designs the loan so that energy savings outweigh the monthly loan payment, which creates an immediate positive cash flow for Gulf Chrysler Dodge Jeep.



Annual Savings

(calculations provided courtesy of SEMCO)

- Energy Savings \$26,800
- Maint. Savings \$3,958
- Displaced Energy 258,090 kWh

Impact of Upgrade

- Simple Payback 3.16 years
- Increase in light levels 52%

Environmental Impacts

- CO2 Reduced 353,712 lbs
- SO2 Reduced 1,136 lbs
- NOx Reduced 645 lbs

Environmental Equivalents

- 584 Barrels of oil saved
- 2.1 Acres of forest preserved
- 28,607 Gallons of gas not burned
- 32.2 House holds powered (1 yr.)
- 1.3 Rail cars of coal preserved



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ALABAMASAVES[™]
Sustainable and Verifiable Energy Savings



Lighting Upgrade Photos

BEFORE



AFTER



Reduce Energy

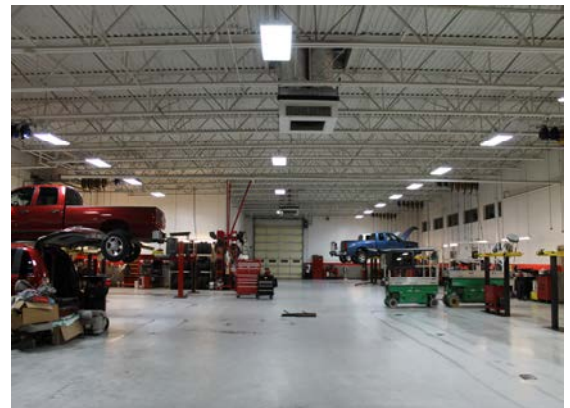
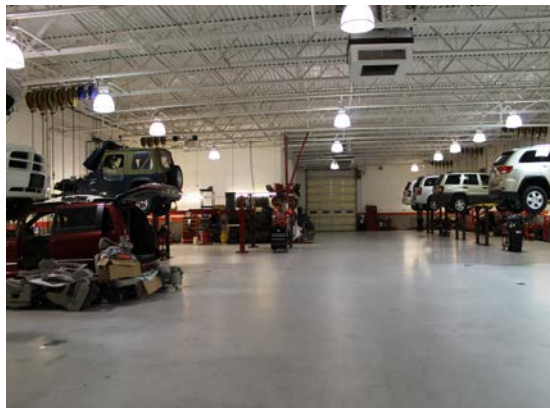
By implementing LED technology throughout the showroom and energy efficiency T8 technology in the maintenance area, lighting costs were reduced by 80% throughout the entire facility .

Lower Maintenance Costs

Upgrading lighting systems not only supplies excellent energy savings but will also provide a lower cost of ownership. The upgraded lighting systems will last 50% longer than traditional HID's and are warranted between 2 and 5 years depending on the product.

Increase Light Levels

Light levels were increased by 52% throughout the entire facility creating a more enjoyable working environment, with a cleaner, more consistent and smooth feel.



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