



Before



After



## Case Study - Lighting

**Client – Consumer Package Goods Manufacturer – Cape Girardeau, Mo.**

**Project – Lighting Upgrade.**

**Situation –** Our client needed an energy efficient lighting upgrade for its 1.393 million square feet manufacturing facility.

**Solution -** Woodstone Energy managed a retrofit and replacement of lighting systems through the plant. All T-12 magnetic ballast fixtures were retrofitted with T-8 lamps and electronic low watt ballasts. In areas where the retrofit would not work efficiently, new fixtures were installed to complete the conversion to T-8 technology. All HID lighting fixtures over 175 watts were replaced with state of the art T-5 fluorescent high bay fixtures.

Lighting controls were installed in appropriate areas to achieve more savings. Occupancy sensors were added to areas where it was financially and operationally feasible and further reduced consumption.

**End Result** - Woodstone Energy's lighting upgrades created an annual electrical savings of 10MM kWh and \$642,969 and annual HVAC savings for 12,000 BTU and \$41,227.\* The Cape Girardeau plant also saves an estimated \$149,000 in annual labor and materials costs due to fewer lamp and ballast replacements. The site reduced their annual output of CO2 by 8,475 tons.

Finally, Woodstone Energy's lighting upgrades helped the Cape Girardeau plant become eligible for a one-time tax deduction of \$1.098 million as part of the Energy Policy Act of 2005.

\*Based on a six-month calculation, as savings are due to a reduced heat load during summer months.

Woodstone Energy is a leading provider of progressive energy conservation and sustainability solutions for small and large manufacturers throughout North America and around the globe. We are proud to be Women's Business Enterprise (WBE) certified.

WoodstoneEnergy.com  
(812) 246-9766

