



## Case study: lighting upgrade

### Client

Fortune 50 Consumer Packaged 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

**Fixtures:** 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.

**Bulbs:** All HID lighting fixtures over 175 watts were replaced with state of the art T-5 fluorescent high bay fixtures.

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

### End Results

Woodstone Energy's lighting upgrades create 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.

Finally, Woodstone Energy's lighting upgrades helped our client 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.



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