



Case Study - Lighting

Client – Paper Products Plant – Albany, GA

Project – Site Wide Lighting Upgrade.

Situation – Our client needed an energy efficient lighting upgrade for its 4.728 million square foot paper manufacturing facility. The site was also experiencing limitations on sub-station power supply.

Solution - Woodstone Energy implemented and managed a combination of light fixture replacement and retrofit throughout the entire facility. Over 13,000 fixtures were upgraded to the most current and efficient technology. All T-12 magnetic ballast and lamps were retrofitted with T-8 lamps and electronic low wattage ballast technology.

All HID lighting fixtures ranging from 100 watts to 400 watts were replaced with a combination of state of the art T-5 fluorescent high bay fixtures and T-5 vapor tight fixtures.

Lighting controls were also incorporated to the retrofit. Several areas throughout the site included opportunity for further energy savings. Occupancy control as well as day light harvesting sensors were applied to minimize burn hours on new fixture installation.

End Result - Woodstone Energy's lighting upgrades created an annual electrical reduction of over 20MM KWH and an annual savings of \$1,102,732. Additional impacts include HVAC heat load reduction with an annual savings of \$20,384. Labor and material reductions yield an annual savings of \$95,724 due to fewer lamp and ballast maintenance requirements. This retrofit led to a 51% reduction in lighting energy and beat ASHRAE lighting standards of watt per square foot by over 40%. The energy reduction relieved stress on sub-station power supply further reducing potential Production interruptions.

Finally, Woodstone Energy's lighting upgrades helped the Albany, GA Plant become eligible for a one-time tax deduction of \$2.836 million as part of the Energy Policy Act of 2005.

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