



Procter & Gamble

Mehoopany, Pennsylvania

Facility Upgrade

Problem To reduce energy demand and utility costs while minimizing capital investment.

Resolution To design and implement an energy efficient lighting upgrade, a new efficient inlet filtration system for the gas turbine, and a heat exchanger at the Meehoopany paper making plant.

Project Description

The Optimira team designed the upgrade to improve the working environment, replace old lighting technologies with standardized lighting materials, reduce maintenance overhead, and alleviate utility costs.

Lighting levels were evaluated at each area of the plant to ensure that all areas met the lighting standards set by the Illuminating Engineering Society of North America (IESNA).

Optimira provided the following services to achieve the energy reduction costs:

- ▶ Fulfilled the role as project manager for the project
- ▶ Upgraded/replaced over 9,000 fixtures to energy efficient fixtures
- ▶ Installed a new heat exchanger to preheat the river water
- ▶ Installed a new inlet filtration system for the gas turbine – providing more efficient filters to keep the gas turbine clean and more efficient for a longer period of time



End Result

Optimira implemented their design for the paper making facility, yielding a \$974,070 savings/year. Specifically, lighting levels were increased from 20-25%, reducing energy costs by 35%. The overall project was funded from the savings achieved within the existing utility budget as well as rebate funds from the local utility. The project was delivered under budget and ahead of schedule.