



PES Helps Energy-Efficient Window Manufacturer “Go Green” with Independent Review of Lighting & Roofing Proposals

Project Description/Services:

- Initial energy audit for manufacturer of energy-efficient windows. Services included evaluation of energy use and costs, with plan for eliminating energy waste.
- PES conducted independent reviews of vendor proposals for new lighting and roofing systems.

Outcomes:

- Rate analysis showed that peak demand charges comprise 40% of electricity costs. In June 2009, the peak demand charge was nearly 40% of the monthly bill. The greatest opportunities for savings lie in altering the manufacturing equipment schedules and power-up/power-down sequences pending outcome of a comprehensive equipment review & enrollment in a peak demand-response program.
- Air conditioning in office spaces was running 24/7; cooling costs will be cut 20% with PES-recommended refinement of HVAC controls and air-conditioning schedule. Total 2008 electricity costs were \$340,000.
- The PES independent lighting review showed that the ROI presented in the lighting replacement proposal was overstated by more than one-third due to two incorrect assumptions: (1) burn time was overestimated, and (2) electricity costs attributed to lighting were higher than actual costs. The independent PES assessment supports the client’s efforts to make the most cost- and energy-efficient lighting replacement decision.
- The PES independent roofing review and payback analysis helped the client make an educated purchasing decision. In this case, the client opted for a white reflective roof due to its high R-value (insulation), which will maximize energy savings during the heating season. The reflective roof will also help reduce the heat island effect.

Project Stats:

- September 2009
- Target 5-Year Savings: \$200,000

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