



CASE STUDY

Pepperidge Farm Denver, Pennsylvania

Pepperidge Farm, a commercial bakery owned by Campbell's Soup, has a plant in Denver, Pennsylvania, where GreenTech Energy Services did a lighting retrofit. In the conference room, storage areas, halls, kitchens, offices and other administrative areas, GreenTech retrofit F40 T12 fixtures with F32 T8s. On exit signs, 20-watt incandescent lights were replaced with new LED exit signs. In the warehouse, production areas, generator and boiler rooms, 400-watt high-pressure sodium and metal halide high bays were replaced with F32 sealed and gasketed T8 fluorescents. In the bakery coolers and freezers, 400 watt HPS wallpacks and high bay fixtures were converted to 320-watt metal halide pulse start technology. In addition, sensors were installed on walls, ceilings and fixtures to turn lights off when areas are unoccupied. The project significantly reduced energy consumption and costs, and will pay for itself in only 1.2 years. Light levels have been maintained, and the quality and uniformity of light throughout the plant has been improved, enhancing productivity, safety, and quality control.

PROJECTED SAVINGS

- Program Cost..... \$587,877
- Utility Rebate..... \$127,167
- EPACT Tax Savings..... \$91,936
- Payback Period..... 1.2
- KW Saved..... 303
- KWH Saved 2,918,799
- Energy Cost Savings \$291,878
- Operational Savings \$17,636
- Total Savings..... \$309,514



ENVIRONMENTAL IMPACT

- Reduction in Carbon Dioxide (pounds)..... 4,378,168
- Reduction in Sulfur Dioxide (grams)..... 16,345,161
- Reduction in Nitrogen Oxide (grams)..... 7,296,947

"We're very happy with the job," says Jim Dwyer, Electrical/Control Engineer. "The lighting is good, the occupancy sensors were well positioned, and the crew was careful to comply with the safety and dress code, which is really important in a food environment. Frankly, I was a little concerned that we weren't going with a local contractor who was familiar with the plant. But the GreenTech foreman came in here and immediately got to know the plant and the people he needed to know to get the job done."