



CASE STUDY

Schering-Plough Corporation Branchberg, New Jersey

Schering-Plough Corporation, one of the world's largest pharmaceutical companies, contracted with GreenTech Energy Services to design and implement a total energy-savings solution for its Branchberg, NJ facility. The facility's aging T12 lamps and magnetic ballast were replaced with state-of-the-art T8 HO lamps and electronic ballast. Occupancy sensors were mounted directly to the fixtures in low-traffic areas, and programmed to turn off when the space is unoccupied. Photocell sensors were installed near the skylights, which turn the lamps off during the day in response to detected light levels. The starters on the motors that drive four conveyor belts were replaced with Motorboss, which detects variation in demand and responds by adjusting the voltage according. This allowed the motors to be operating at close to 100% efficiency at all times. The results included significant savings in both energy and operational costs as well as a reduction in pollutants.



THE SAVINGS	
Program Costs	\$186,977
Payback	1.6
KW Saved	74
KWH Saved	425,470
Energy Savings	\$44,249
Operational Savings	\$5,609
Total Savings	\$49,858
Utility Rebate	\$76,760
Estimated EPACT Tax Savings*	\$32,400

*Legislation enacted in 2006 allows for all or almost all the cost of a lighting retrofit project to be depreciated during the 1st year.

ENVIRONMENTAL IMPACT	
Reduction in Carbon Dioxide (pounds)	638,205
Reduction in Sulfur Dioxide (grams)	2,382,632
Reduction in Nitrogen Oxide (grams)	1,063,675



"GreenTech did an excellent job. They were very flexible, willing to modify the original plan as we went along. The lighting is now brighter and more consistent, and we're no longer wasting energy lighting up unoccupied areas. We've been approved for a rebate, and we're anticipating significant energy savings. We're very pleased with the project."

Keith Holland, Manager, Schering-Plough

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