



CASE STUDY

SMOOTH-ON Easton, Pennsylvania



Smooth-on is a leading manufacturer of rubber, plastic and foam molds used for sculptures, architectural ornamentation, product prototypes, and special effects for movies. The company hired GreenTech Energy Services to help reduce energy usage and operational costs in its Easton, PA headquarters, a 42,000-square-foot facility. GreenTech replaced 400-watt metal halides in the warehouse with T5 fixtures, which, in a space with higher ceilings, offered the best way to reduce energy use while maintaining foot-candles. GreenTech then retrofit fixtures in the offices with T8 lamps and low-power ballast, reducing the per fixture wattage from 485 to 234. Finally, the 20-watt lamps in the exit signs were replaced with 2-watt LED lights, which are guaranteed to last for 50 years.

The lighting project has not only created a safer, brighter, more aesthetically pleasing work environment, but has also enhanced quality control, since high quality lighting reduces the potential for mistakes in the construction of the molds and sculptures.

SAVINGS

| | |
|---------------------|----------|
| Program Costs | \$37,024 |
| EPACT Tax Savings | \$6,451 |
| Payback | 3.5 |
| KW Saved | 26 |
| KWH Saved | 93,173 |
| Energy Savings | \$7,686 |
| Operational Savings | \$1,111 |
| Total Savings | \$8,797 |

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ENVIRONMENTAL IMPACT

| | |
|--------------------------------------|---------|
| Reduction in Carbon Dioxide (pounds) | 139,760 |
| Reduction in Sulfur Dioxide (grams) | 521,769 |
| Reduction in Nitrogen Oxide (grams) | 232,933 |