



Swiss American Screw Products

Canton, Michigan

In 2005, MTI completed an engineered lighting project for Swiss American Screw Products.



Over a Ten Year Period, Swiss American Screw Products will save over \$37,899.57 That's Not Bad, for an Energy Bill.

MTI CASE STUDY

Location: Canton, Michigan
Average Hours of Operation: 4,896 per year
Average Utility Cost per kWh \$0.0877
Total Watt Reduction: 9,000

Efficiency Measures

The indoor lighting at Swiss American Screw Products was a combination of fluorescent and incandescent lighting fixtures. The offices were primarily lit with 1' x 4' and 2' x 4' fluorescent fixtures. MTI Lighting Specialists replaced existing fixtures that contained T-12 lamps with magnetic ballasts and retrofitted them with electronic ballasts and 32 watt, T-8 lamps. Incandescent fixtures were retrofitted with (CFL) compact fluorescent lamps for increased energy savings.

D	Total Number of Components.....	345
E	Annual Energy Cost Savings Due to Reduced Lamp Wattage.....	\$3,490.82
T	Annual HVAC Energy Savings Due to Reduced Lamp Heat.....	\$288.56
A	Annual Maintenance Cost Savings Due to Reduced Lamp Changes.....	\$10.58
I	Total Annual Cost Savings.....	\$3,789.96
L	Monthly Energy Cost Savings Total.....	\$315.83
S	Return on Investment.....	46.23 months
	Projected 10 Year Energy Cost Savings.....	\$37,899.57

Cleaning the Environment... Energy-Effective Lighting and Pollution Prevention

The Swiss American Screw Products energy-effective retrofit will have the effect of removing 4.0 cars permanently from the road or planting 8.2 acres of trees.

It will also remove emissions from the atmosphere:
59,706 pounds of CO₂ prevented per year
7,961 ounces of SO₂ prevented per year
3,582 ounces of NO_x prevented per year