



Case Study #2-1

Company Name: General Motors

Number of Facilities (as applicable): 73

Year of Implementation: 2002

Description of Activity: *Lighting Efficiency Plans (Green Lights)*

These projects generally consist of changing out T12 fluorescent fixtures with T8 fixtures, which results in a substantial energy savings without a reduction in light levels. In addition, unnecessary lights are removed or relocated, and motion sensors are installed where appropriate. GM's Energy & Utility Services Group began implementing green lights projects at seven plants in 2002. These projects are projected to have savings of over \$2.7 million per year. Most of these projects are funded using the Energy Savings Performance Initiative (ESPI) process which utilizes GM's approach to working with a third party to fund the lighting and other energy conservation projects. The ESPI process is similar to what is commonly known as "performance contracting," but it uses a more focused and targeted approach. Green Lights Certificates were received at two plants in 2002, with three more currently under review.

Specific Energy/Environmental Benefits Achieved (i.e., materials, energy, waste, CO2 reductions):

ECONOMIC GHG EMISSIONS BENEFITS

Year	Number of Plants Implemented	Estimated Savings \$/Year	CO ₂ Emissions Prevented (Tons/Year)
Prior to 2002	5	\$3,600,000	58,400
2002	7	\$2,700,000	43,800
2003-2004	61	\$9,800,000	159,000
Totals	73	\$16,100,000	261,200