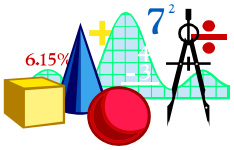
Department of General Administration
Division of Engineering and Architectural Services
Facilities Engineering Section

Energy Project Case Study



Facility: **City of Lynnwood** **Traffic Lights** Completed June 2002

Project Description: This project retrofitted 40 intersections with energy efficient LED (low emitting diode) light modules. Work included pedestrian and signal retrofit installations and/or new heads as required. Full service included necessary work performed at night, field engineering, and quality checks before placing the equipment into full operations.

Project Savings: Annual Electrical Savings: 462,000 kWh
Annual kW Demand Savings: 169 kW
Annual Maintenance Savings: Extensive but not considered.
Total Annual Avoided Cost: $ 32,900

Project Benefits: LED lights have five times the expected life of conventional lamps which creates extensive labor savings in addition to the energy savings.

Environmental Benefits: Reduction in CO_2 equals 455,532 pounds per year
Equal to removing 30 cars from the road or planting 62 acres of trees

Energy Company: Siemens Building Technologies, Inc.

Project Cost: $445,400

Funding Source(s): LOCAL loan Amount: $376,500
Grants Amount: $ 68,900

Project Managers:
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Visit our web site at http://www.ga.wa.gov/eas/energy.html

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