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 CO₂ 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:
- William Franz, P.E., engineering director City of Lynnwood 425-670-6658
- Jim Hayes, P.E., Energy Systems Engineer, Department of General Administration 360-902-7281
- Maury Costantin, Project Manager, Siemens Building Technologies, Inc., 425-455-3700

For more information please contact: Karen Purtee (360) 902-7194 or email kpurtee@ga.wa.gov
Visit our web site at http://www.ga.wa.gov/eas/energy.html