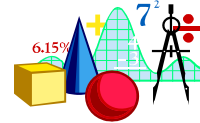


Department of General Administration
Division of Engineering and Architectural Services
Facilities Engineering Section

Energy Project Case Study



Facility: **Kitsap County Administration Complex
Courthouse, Jail and Public Works Buildings**

Project completed June 1, 2000

Project Description: Located at Port Orchard, Washington, this project focused on physical plant upgrades in several County facilities. This included: replacing two aging boilers with high efficiency units; replacing two multi-zone rooftop air handlers with triple deck units; and, replacing numerous air handlers having electric coils with new water coil units supplied from the new boiler. Other work included segregating a telecommunication room from the central air handler and installation of a dedicated air conditioner. Enhanced HVAC controls were installed in all of the facilities. There was a retrofit of fluorescent lights with T8 lamps and electronic ballast, replacement of incandescent fixtures with compact fluorescent and upgrading of exit signs to LED units.

Project Savings: Annual Electrical Savings:	2,028,350kWh	\$107,683
Annual kW Demand Savings:	5,244 kW	
Annual Natural Gas Savings:	20,846 Therms	\$ 10,400
Annual Maintenance Savings:		<u>\$ 10,966</u>
Total Annual Avoided Cost:		\$129,049

Environmental Benefits: Reduction in CO₂ of 3,378,480 pounds per year
Reduction in SO₂ of 15 pounds per year
Reduction in NO_x of 3,017 pounds per year

Energy Company: Puget Sound Energy

Project Cost: \$1,231,744

Funding Sources: State Treasurer Loan Amount: \$1,181,744
Puget Sound Energy Grant Amount: \$ 50,000

Project Managers:
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Visit our web site at <http://www.ga.wa.gov/EAS/epc/espc.htm>