



LEED Gold

Puget Sound Energy Skagit Service Center

BURLINGTON, WASHINGTON

Services

- MEP Engineering
- Sustainable Design
- Building Technologies
- Fire/Life Safety
- Commissioning
- Lighting

FAST FACTS

Architect

Lawhead Architects

General Contractor

Fisher & Sons

Completion

January 2008

Building Size

30,000 sf

Project Cost

\$3 million

Contact

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Puget Sound Energy is Washington State's largest electric and gas utility. They are a strong proponent of energy efficiency so it was only natural that their new service center incorporate energy saving systems. The new 30,000 sf service center includes a data center with uninterruptible power supply (UPS), support services, multi-tiered offices, a covered dock and truck bays.

The building's innovative design elements include **light shelves** and automatically adjusting interior lighting to maintain the correct levels of illuminance. To ensure reduced light pollution to neighboring properties, the design team included sensor-controlled lighting that turns off during non-business hours and low cut-off glare-reducing fixtures.

The office space is oriented east-west to maximize winter passive solar thermal gain and reduce summer solar gain. The design team also incorporated **solar thermal collectors** into the south wall shading system. The solar thermal collectors are new vacuum tube technology allowing significant heat generation even on cold and partly cloudy days.

Other green features include **ventilation air heat recovery, raised floor air distribution system, high performance heat pumps, rain water harvesting and flushing water system and high efficiency plumbing fixtures**. As a result of these energy and water saving measures, the project was able to reduce overall energy consumption of the building by **50 percent** beyond the Washington State energy code requirements.

photography: Lawhead Architects



Solar thermal panels are integrated with the South wall shading system, creating an architectural element that also saves costs.