



### PSE Profile on Whidbey Island (2008):

**Customers:** 34,463

**Power load:** 80 megawatts (MW), average;  
152 MW, peak

#### Power-delivery facilities:

- 329 miles of overhead neighborhood power distribution lines
- 342 miles of underground neighborhood power distribution lines
- 126 miles of high-voltage transmission lines
- 10 substations

#### Taxes paid:

- Property taxes: more than \$280,000
- Municipal taxes: more than \$755,000
- Sales taxes: more than \$1,500



Transmission lines on Whidbey Island



Downtown Langley

#### Electric-system investments:

- Instituted a multi-year initiative in 2007 to materially improve service reliability
- 15,000 feet of new tree wire will be installed in 2008 along Midvale Road, Brooks Hill Road, Bayview Road and Coral Sea Avenue
- Building a new substation, related transmission lines and new underground distribution lines, on the south end of the Island
- Plan to upgrade our Whidbey and South Whidbey substations in 2010 by adding new bus work and a 115 kilovolt capacitor bank to increase reliability and system voltages

#### Energy education:

- Cool School Challenge
  - » Coupeville Middle School
  - » Langley Middle School
  - » North Whidbey Middle School
- With the aid of a solar schools grant from PSE, South Whidbey High School installed a demonstration solar system in April 2008

### Community involvement:

- Funding contributions to 14 community organizations including the American Red Cross, Big Brothers Big Sisters of Island County, Burning Word Festival - Poetry Reading, Community Harvest - Freeland Chamber of Commerce Event, EDC - Uniquely Whidbey EXPO, Holland Happenings - Oak Harbor Chamber of Commerce, North Whidbey Rotary Challenge Series for kids with special needs, Opportunity Council, Senior Services of Island County, South Whidbey American Legion Post 141, Uniquely Biz Expo in Coupeville, United Way, Whidbey Animals Improvement Foundation, Whidbey Island Center for the Arts, Whidbey Island Conservation District, and Whidbey Island Conservation District - Annual Harvest
- Providing low income and bill payment assistance
  - » The Salvation Army Warm Home Fund: \$58,000 in 2007-08
  - » PSE's HELP (Home Energy Lifeline Program): more than \$196,000 in 2007-08

### Energy efficiency / renewable-energy programs:

- During the past four years, commercial and industrial customers on Whidbey Island have saved more than 12.4 million kilowatt hours (kWh) of electricity — enough to power about 1,100 homes
- PSE aided in performing a lighting retrofit at Whidbey General Hospital in 2006 with projected energy savings of nearly 230,000 kWh and peak demand reduction of 20 kilowatts (kW), resulting in a savings of more than \$13,500 per year
- PSE paid 50 percent of the cost (about \$50,000) on a lighting retrofit in Oak Harbor Schools, which was completed in 2007 and will save more than \$20,000 per year; also completed various projects at the schools in 2004 with savings of more than \$5,000 per year
- Assisted Naval Air Station Whidbey Island on numerous projects over the last 20 years, including a 2003 lighting project affecting 83 buildings and 1,200,000 sq. ft., resulting in energy savings of more than 2.5 million kWh, and customer-projected savings of \$1.1 million per year
- During the past four years, thanks to their participation in PSE's residential energy efficiency programs, excluding the CFL bulb program (a major component of total savings), Whidbey Island residents have saved more than 650,000 kWh, or enough energy to power about 60 homes, preventing more than 730,000 pounds of CO<sub>2</sub> from being released into the environment
- There are 19 renewable energy systems that have been connected to PSE's grid on Whidbey Island, representing 36.7 kW of electric generation capacity
- PSE has 633 residential Green Power customers on Whidbey Island, as well as 18 commercial Green Power customers
- PSE is working in collaboration with the city of Langley on a community conservation program designed to reduce the city's municipal, residential and business energy use; reduce the city's carbon emission footprint; and further develop the community's culture of sustainability (*this is a pilot initiative of PSE's Green Light to Action program that aims to work more collaboratively with communities on reducing their energy use to achieve energy savings and to meet their green goals*)



PSE's Energy Efficiency program brochures