

Fredonia Generating Station

Ensuring reliable electric service

PSE.COM



Fredonia Generating Station

Puget Sound Energy strives to ensure reliable electric service at a reasonable cost by acquiring power supplies from a variety of different sources, both PSE generated and purchased from other suppliers. These sources are primarily hydropower, wind power, natural gas-fired generation, and coal-fired power from Montana. This diversified-portfolio strategy minimizes risk – and costs – in the event that an unforeseen circumstance (a drought, for example) causes regional shortages in one form of power and, in turn, drives up wholesale power prices. While hydroelectricity comprises the single largest share of PSE's total power-supply mix, electricity from efficient, clean-burning natural-gas-fired facilities also makes up a significant share – about one-fifth of PSE's total.

PSE today owns nine natural gas-fired plants, all in Washington state. One of these is the Fredonia Generating Station in Skagit County.

Power Output

The Fredonia Generating Station can produce 314 megawatts of electricity when running at maximum capacity. That is enough power to meet the electricity needs of about 235,000 households.

Location

The Fredonia Generating Station is located 75 miles north of Seattle, or about seven miles northwest of Mount Vernon in Skagit County.

Facility Profile

PSE employs the Fredonia facility primarily to provide back-up “peaking” energy for the utility's power system during daily or seasonal spikes in customers' power usage. The natural-gas-fired station contains four separate “single-cycle” (also called “simple-cycle”) generating units. The first two, installed in the early 1980s, each can generate up to 104 MW of power. The other two turbine generators, installed in 2001, each has a 54-MW generating capacity.



PSE Supervisor Earl Shepard at Fredonia Generating Station

Personnel

Five full-time PSE employees operate and maintain the Fredonia Generating Station.

Tax benefits to public

Property taxes levied on PSE's Skagit County facilities, including the Fredonia Generating Station, provide significant revenue for local schools, county roads and other public services.

