

# Central Pierce - Alderton 115 kV transmission reliability improvement project

Fact sheet  
PSE.com

*Delivering your energy future*

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## **Puget Sound Energy is upgrading your electric system in Bonney Lake, Orting and central Pierce County**

### **What is the project?**

To better serve our customers in Bonney Lake, Orting and central Pierce County, Puget Sound Energy plans to construct three 115 kilovolt transmission lines on wooden H-frame poles from our existing 115 kV transmission lines at 178<sup>th</sup> Avenue NE near Highway 410 to our Alderton substation (14450 Old Military Rd. in Puyallup). The lines will be constructed in two phases (see project map below).

- **Phase I:**

Construction of a new 115 kV transmission line running approximately four miles along an existing water main corridor from a tie-in point just west of our existing Rhodes Lake substation (19650 Rhodes Lake, Bonney Lake) to our Alderton substation.

- **Phase II:**

Construction of two new transmission lines running approximately 3.2 miles from our existing 115 kV transmission line at Myers Road East near Highway 410 to our Alderton substation. The new lines will parallel existing regional transmission lines.

### **Why is PSE building new transmission lines?**

PSE is building the new transmission lines to increase the reliability and capacity of the electric system in the Bonney Lake, Orting, and central Pierce County areas. Currently, our existing transmission line between our White River and Electron Heights substations has limited capacity and redundancy, meaning if the line serving the substations goes out, a substation and our customers served by it may lose power. The new transmission lines will interconnect with existing transmission lines in the area to serve as a back up. If one line loses power, the other line will continue to feed the substation and provide electricity to our customers in the area.

### **How will this benefit you and your community?**

The new transmission line will increase electric delivery capacity and reliability to our customers in the Bonney Lake, Orting and central Pierce County areas.

### **Project schedule**

- Design and permitting: 2011
- Construction of phase I: late 2011
- Construction of phase II: 2013

### **What will the work entail?**

- Trimming and removing vegetation along the route
- Installing new transmission poles and insulators
- Stringing transmission line
- Site restoration

Construction will be confined to normal daytime working hours during the week, with the possibility of some work on Saturdays. The majority of the work will be in roads along public rights-of-way or along existing utility corridors. When working in or along roads, signs and flaggers will help direct traffic.

**What can I expect to see or hear during construction?**

Typical construction equipment will be used, including back hoes, cranes, bucket trucks, and work trucks. Construction will involve vegetation removal and installation of new transmission poles and conductors.

**Why are transmission lines necessary?**

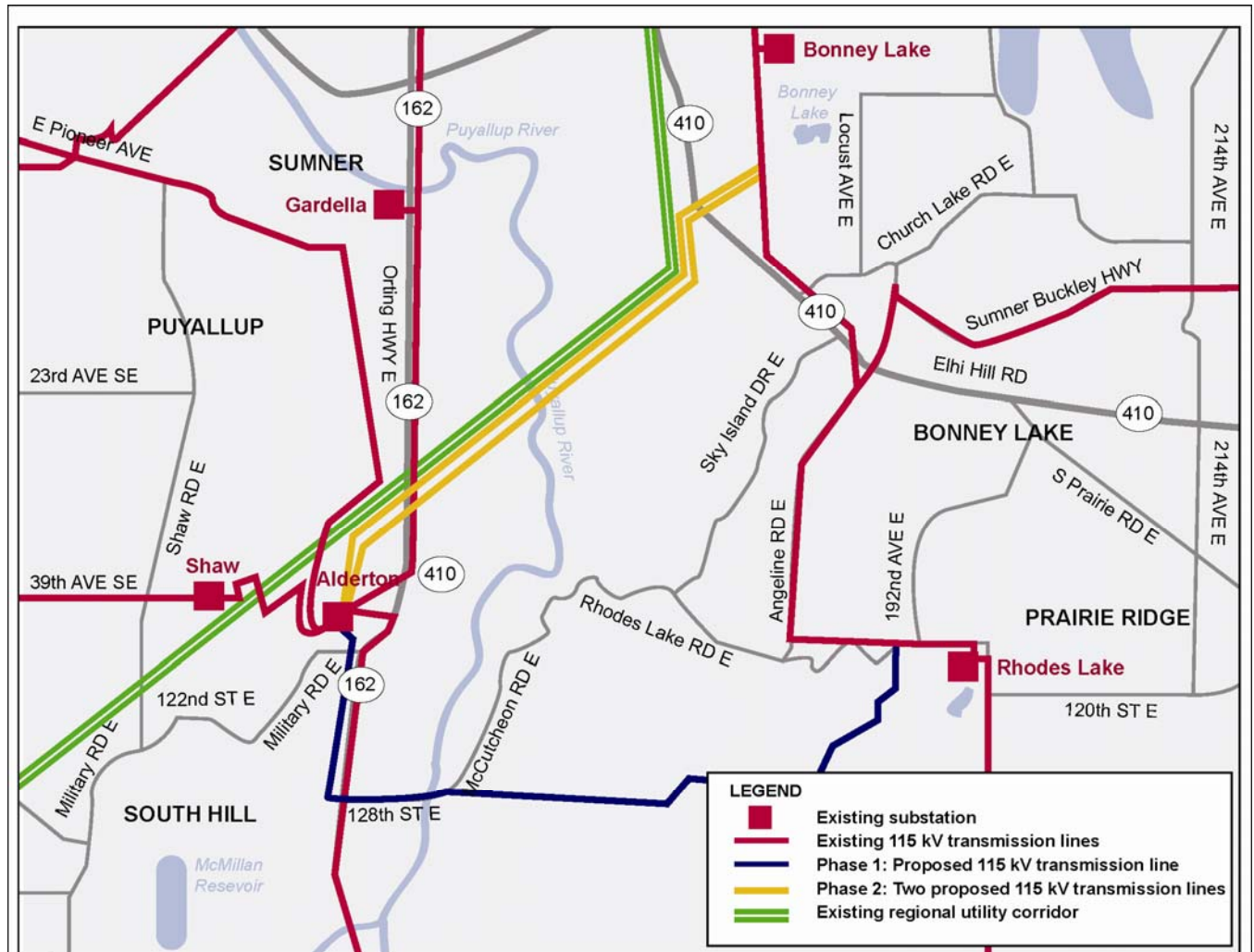
Transmission lines are key elements in the electrical distribution system. The lines safely transport high voltage electricity from power generation sources like dams and wind generating facilities to substations in local communities. Transmission normally takes place at voltages of 55 kV and higher.

**PSE's commitment**

PSE's mission is to deliver vital energy to meet the needs of our customers now and in the future. We are committed to keeping everyone informed of scheduled activities in their communities, and to ask for suggestions and opinions as we plan those activities.

**For additional information/questions please contact:**

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