



Port Madison Tap 115 kV

Improving the electric system for our customers

The Port Madison Tap 115 kV transmission line is reaching its load capacity limit, which decreases the system’s ability to provide customers with reliable power, especially during times of high energy usage or during an unplanned outage on another local transmission line.

To improve reliability for customers in north Kitsap County and Bainbridge Island, Puget Sound Energy (PSE) plans to rebuild the line with larger wire and replace some of the existing wood poles with new wood poles. With the new wire, any future outage to a nearby transmission line will allow the Port Madison Tap 115 kV line to pick up the additional load, and continue to supply energy to customers served by both lines.

PSE will also replace approximately 3.5 miles of existing overhead distribution line with tree wire. Tree wire is a specially coated overhead wire, which is strong enough to withstand a tree limb falling into the line, and can significantly reduce the frequency of tree-related power outages.

As part of this project, PSE will also transfer approximately three miles of existing distribution lines onto new poles along Lemolo Shore Dr NE and State Route 305.

Construction is expected to begin as early as May 2015 and continue through October.

What is a transmission line?

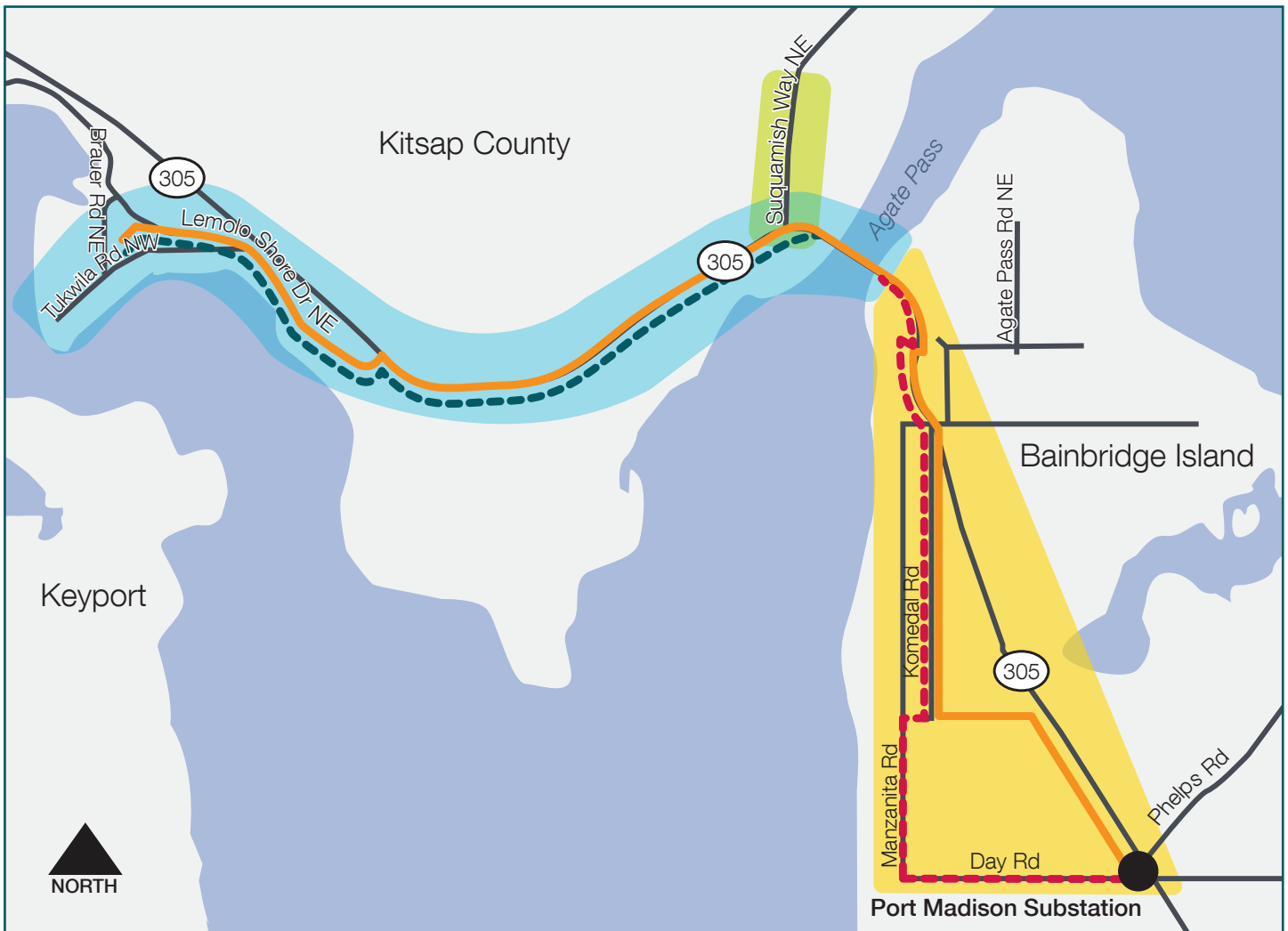
Transmission lines are key elements in the electrical distribution system. The lines safely transport high voltage electricity from power generation sources like dams and wind generating facilities to substations in local communities. Transmission normally takes place at voltages of 55 kV and higher.

What is a distribution line?








Distribution lines are critical links in the electrical system moving power from electrical substations through distribution transformers directly to homes or businesses. PSE’s distribution lines are typically 12.5 kV.

Schedule	2015			
	Q1	Q2	Q3	Q4
Design and engineering	▶			
Permitting	▶			
Real estate and easement acquisition	▶			
Kitsap construction		▶		
Bainbridge Island construction			▶	
Site restoration				▶
Community outreach	▶			

Project map



Legend and Construction Timeline

-  2015 Port Madison distribution tree wire project
-  2015 Port Madison Tap 115 kV rebuild project
-  2015 South Keyport distribution transfer
-  May
-  May - August
-  August - October
-  Existing substation

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