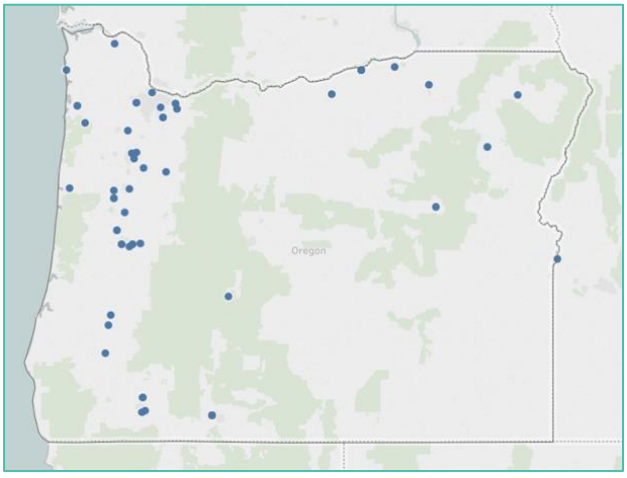
Combined Heat and Power (CHP) Snapshots – Oregon

Northwest CHP Technical Assistance Partnership (TAP) Quick Facts

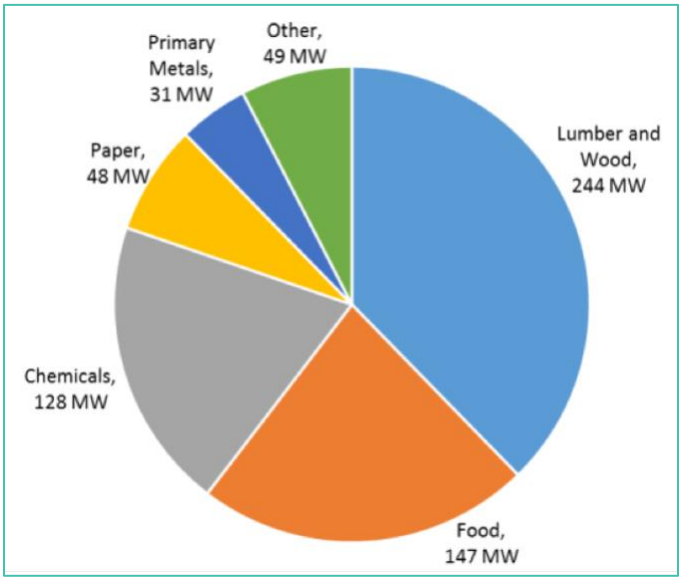
- The Northwest CHP TAP works with regional partners to promote and assist in transforming the market for CHP, waste heat to power, and district energy technologies throughout the Northwest.
- The Northwest CHP TAP serves the Northwestern states of Alaska, Idaho, **Oregon**, and Washington.

State	Number of Current Sites	Total CHP Capacity (MW) Deployment	Number of Potential Sites	Total CHP Technical Potential (MW)	CHP TAP Activities (2014-2017)		
					Technical Assistance	End-User Education	Policymaker Education
Alaska	158	505	632	408	26	9	3
Idaho	22	213	1,407	659	30	11	1
Oregon	**56**	**2,070**	**3,466**	**1,342**	**44**	**15**	**9**
Washington	35	1,052	5,570	2,545	71	17	37
Total	271	3,840	11,075	4,954	171	52	50

Oregon CHP Installations



CHP Technical Potential by Industrial Sector



Oregon CHP Project Snapshots

- **Freres Lumber – (Lyons, OR) –** The family-owned mill installed a 10.5 MW CHP system in 2007 to save on increasing energy costs. The main fuel source for the CHP system is wood waste generated onsite, and the facility has reduced energy costs by $500,000 per year. The CHP system has also introduced two new revenue streams for the company, by selling electricity to the grid and generating renewable energy credits, totaling $2.5 million per year. During construction, the project was able to create over 30 part-time and 9 full-time jobs, making a significant impact on the local economy.
- **Finley Buttes Landfill (Boardman, OR) –** The Finley Buttes Landfill is the second largest landfill in Oregon, and in 2007 installed a 4.8 MW CHP system to provide steam to a nearby manufacturer of food products and to supply electricity to the grid. The CHP system has greatly increased the efficiency of industrial operations at the manufacturing facility, Cascade Specialties, and has become an economic asset to the landfill, providing Finley Buttes with additional revenue from electricity and steam sales.

Testimonials from CHP TAP Beneficiaries in the Northwest

"The Northwest CHP TAP Feasibility Study for our combined heat and power project was thorough, well presented and clear. Technical analysis of the project's baseline, technical, economic, energy security and environmental aspects presented a promising solution that allowed us to proceed to the Industrial Grade Analysis. Mr. McCoy's depth of understanding and extensive background in CHP helped us to find the best approach for Naval Air Station Whidbey Island's needs from among many alternatives. Dr. Roos' life cycle cost analysis was professional and complete."

Chris Taylor, Installation Energy Manager
Naval Air Station
Whidbey Island, WA

NEED ANOTHER TESTIMONIAL FROM EITHER AK, ID, OR, or WA

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[1] U.S. DOE, December 2016, "Combined Heat and Power Installation Database" (https://doe.icfwebservices.com/chpdb/).
[2] U.S. DOE, March 2016, "Combined Heat and Power (CHP) Technical Potential in the United States" (https://energy.gov/eere/amo/downloads/new-release-us-doe-analysis-combined-heat-and-power-chp-technical-potential).