



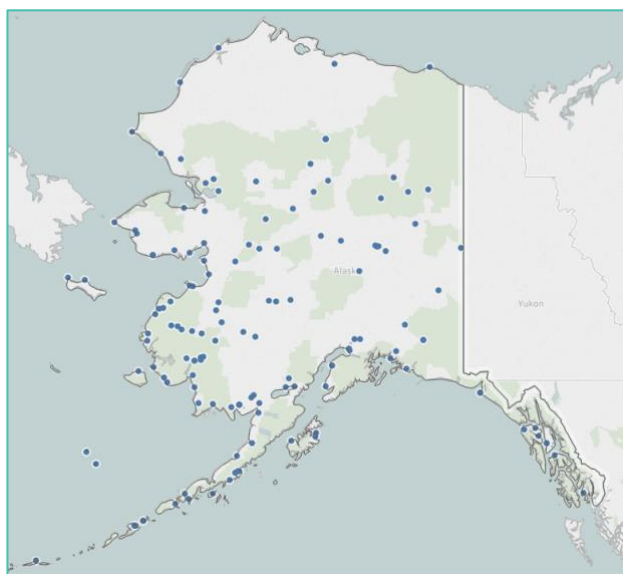
Combined Heat and Power (CHP) Snapshots – Alaska

Northwest CHP Technical Assistance Partnership (TAP) Quick Facts

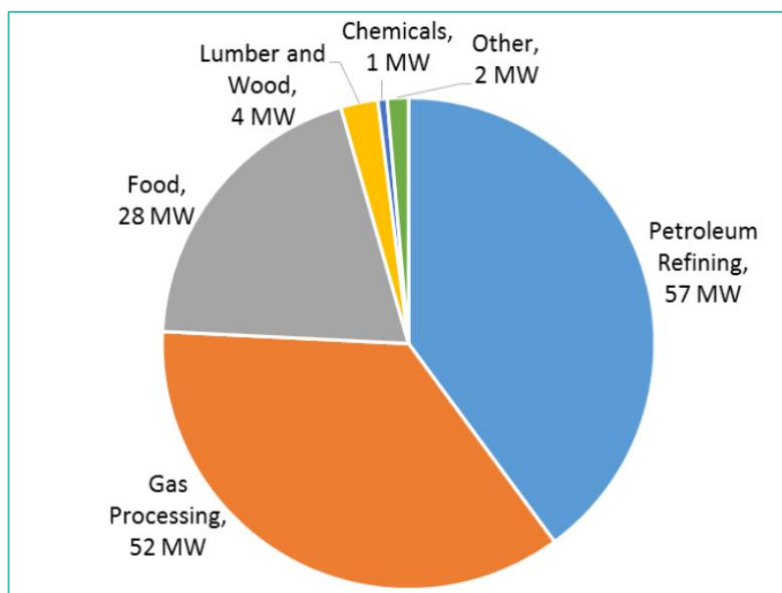
- The Northwest CHP TAP works with regional partners to promote and assist in transforming the market for CHP, waste heat to power, and district energy technologies throughout the Northwest.
- The Northwest CHP TAP serves the Northwestern states of **Alaska**, Idaho, Oregon, and Washington.

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

Alaska CHP Installations



CHP Technical Potential by Industrial Sector





Alaska CHP Project Snapshots

- ◆ **Alaska Gateway School District – Tok School (Tok, AK)** – The Gateway School District in Tok, Alaska, installed a 120 kW CHP system in 2013. Because of its remote location and small size (1,400 inhabitants), the high cost of fuel and electricity had a significant impact on the local school. By installing a CHP system that could utilize the large amount of woody biomass fuel in the area, the school was able to meet 75% of its electricity needs at a fraction of the cost. With the cost savings from the CHP system, the school district plans to invest in two new greenhouses in the future.
- ◆ **Golovin Power Plant (Golovin, AK)** – The city of Golovin operates its own power plant, which it upgraded in 2004 with four new CHP generators, totaling 570 kW. In addition to providing the city's electricity, the system provides heat to the power plant building, a nearby washeteria, city hall, a shop building, and the post office. The high efficiency of the CHP system has allowed the city to save roughly 11,250 gallons of fuel per year, greatly reducing energy costs to the city.

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>).