

Oregon

- Oregon has 1,342 MW of overall CHP capacity identified at 3,466 sites.
 - 646 MW of industrial on-site CHP potential primarily in the lumber and wood, food, chemicals, paper, and primary metals sectors.
 - 662 MW of commercial on-site CHP potential, primarily in the commercial (office) buildings, colleges and universities, hospitals, government buildings, and multifamily buildings sectors.
- Oregon has 29 MW of WHP CHP potential identified at 5 sites in the stone/clay/glass, primary metals, and instruments sectors.
- Oregon has 5 MW of CHP potential identified at 1 district energy site.

Table 1: Overall CHP Technical Potential

Business Type	50-500 kW		0.5 - 1 MW		1 - 5 MW		5 - 20 MW		> 20 MW		Total	
	Sites	50-500 kW (MW)	Sites	0.5-1 MW (MW)	Sites	1-5 MW (MW)	Sites	5-20 MW (MW)	Sites	>20 MW (MW)	Total Sites	Total MW
Industrial Topping Cycle CHP	608	111	94	66	127	262	21	167	1	39	851	646
Commercial Topping Cycle CHP	2,122	211	347	164	130	197	9	67	1	23	2,609	662
WHP CHP	1	0.02	0	0	3	10	1	18	0	0	5	29
District Energy CHP	0	0	0	0	1	5	0	0	0	0	1	5
Total	2,731	323	441	230	261	474	31	252	2	62	3,466	1,342

Table 2: All Industrial CHP Technical Potential (Including Topping Cycle CHP and WHP CHP)

SIC	Industrial Business Type	50-500 kW		0.5 - 1 MW		1 - 5 MW		5 - 20 MW		> 20 MW		Total	
		Sites	50-500 kW (MW)	Sites	0.5-1 MW (MW)	Sites	1-5 MW (MW)	Sites	5-20 MW (MW)	Sites	>20 MW (MW)	Total Sites	Total MW
12	Mining, Except Oil and Gas	0	0	0	0	0	0	0	0	0	0	0	0
13	Oil and Gas Extraction	0	0	0	0	0	0	0	0	0	0	0	0
20	Food	146	30	19	15	34	59	5	44	0	0	204	147
22	Textiles	4	1	0	0	2	5	0	0	0	0	6	6
24	Lumber and Wood	240	43	48	33	43	92	10	75	0	0	341	244
25	Furniture	1	0.1	0	0	0	0	0	0	0	0	1	0
26	Paper	18	5	3	2	11	24	2	18	0	0	34	48
27	Printing	11	1	1	1	0	0	0	0	0	0	12	2
28	Chemicals	69	11	14	10	19	46	3	23	1	39	106	128
29	Petroleum Refining	0	0	3	2	3	6	0	0	0	0	6	8
30	Rubber/Misc Plastics	55	9	2	1	1	2	0	0	0	0	58	12
32	Stone/Clay/Glass	0	0	0	0	4	13	0	0	0	0	4	13
33	Primary Metals	20	5	4	3	7	16	2	25	0	0	33	49
34	Fabricated Metals	9	2	0	0	0	0	0	0	0	0	9	2
35	Machinery/Computer Equip.	5	1	0	0	0	0	0	0	0	0	5	1
37	Transportation Equip.	24	3	0	0	5	6	0	0	0	0	29	9
38	Instruments	4	0.7	0	0	1	4	0	0	0	0	5	5
39	Misc. Manufacturing	3	0.2	0	0	0	0	0	0	0	0	3	0.2
49	Gas Processing	0	0	0	0	0	0	0	0	0	0	0	0
	Total	609	111	94	66	130	273	22	185	1	39	856	674

Table 3: All Commercial CHP Technical Potential (Including Topping Cycle CHP, WHP CHP and District Energy CHP)

SIC	Commercial Business Type	50-500 kW		0.5 - 1 MW		1 - 5 MW		5 - 20 MW		> 20 MW		Total	
		Sites	50-500 kW (MW)	Sites	0.5-1 MW (MW)	Sites	1-5 MW (MW)	Sites	5-20 MW (MW)	Sites	>20 MW (MW)	Total Sites	Total MW
43	Post Offices	3	0.3	0	0	0	0	0	0	0	0	3	0.3
52	Retail	190	30	6	4	0	0	0	0	0	0	196	34
4222	Refrigerated Warehouses	9	1	1	1	1	2	0	0	0	0	11	3
4581	Airports	3	1	0	0	0	0	1	6	0	0	4	7
4952	Waste Water Treatment Plants	16	2	1	1	0	0	0	0	0	0	17	3
4961	District Energy	0	0	0	0	0	0	0	0	1	5	1	5
5411	Food Stores	169	24	0	0	2	5	0	0	0	0	171	29
5812	Restaurants	158	15	0	0	0	0	0	0	0	0	158	15
6512	Commercial Office Buildings	726	36	223	89	56	34	0	0	0	0	1,005	159
6513	Multifamily Buildings	149	11	54	27	8	8	0	0	0	0	211	47
7011	Hotels	182	21	10	6	7	11	1	6	0	0	200	44
7211	Laundries	23	3	1	1	0	0	0	0	0	0	24	4
7374	Data Centers	31	6	2	1	1	1	0	0	0	0	34	8
7542	Car Washes	11	1	0	0	0	0	0	0	0	0	11	1
7832	Movie Theaters	1	0.1	1	1	0	0	0	0	0	0	2	1
7991	Health Clubs	53	6	1	1	0	0	0	0	0	0	54	7
7997	Golf/Country Clubs	45	6	0	0	2	3	0	0	0	0	47	9
8051	Nursing Homes	121	12	0	0	0	0	0	0	0	0	121	12
8062	Hospitals	37	9	12	8	16	38	0	0	0	0	65	55
8211	Schools	7	0.5	0	0	0	0	0	0	0	0	7	0.5
8221	College/Univ.	34	6	5	3	21	60	7	55	1	23	68	148
8412	Museums	12	1	0	0	0	0	0	0	0	0	12	1
9100	Government Buildings	132	17	27	20	9	15	0	0	0	0	168	52
9223	Prisons	7	2	2	2	6	14	0	0	0	0	15	18
9711	Military	3	0.4	1	1	1	5	0	0	0	0	5	6
	Total	2,122	211	347	164	130	197	9	67	2	28	2,610	667

Sub-Table 1.1: Waste Heat to Power CHP Technical Potential (Subset of Total CHP Technical Potential)

SIC	WHP CHP Business Type	50-500 kW		0.5 - 1 MW		1 - 5 MW		5 - 20 MW		> 20 MW		Total	
		Sites	50-500 kW (MW)	Sites	0.5-1 MW (MW)	Sites	1-5 MW (MW)	Sites	5-20 MW (MW)	Sites	>20 MW (MW)	Total Sites	Total MW
32	Stone/Clay/Glass	0	0	0	0	3	10	0	0	0	0	3	10
33	Primary Metals	0	0	0	0	0	0	1	18	0	0	1	18
38	Instruments	1	0.02	0	0	0	0	0	0	0	0	1	0.02
	Total	1	0.02	0	0	3	10	1	18	0	0	5	29

Sub-Table 1.2: District Energy CHP Technical Potential (Subset of Total CHP Technical Potential)

SIC	District Energy Type	50-500 kW		0.5 - 1 MW		1 - 5 MW		5 - 20 MW		> 20 MW		Total	
		Sites	50-500 kW (MW)	Sites	0.5-1 MW (MW)	Sites	1-5 MW (MW)	Sites	5-20 MW (MW)	Sites	>20 MW (MW)	Total Sites	Total MW
4961	Current Loops without CHP	0	0	0	0	1	5	0	0	0	0	1	5
4961	Current Loops with CHP expansion	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	1	5	0	0	0	0	1	5