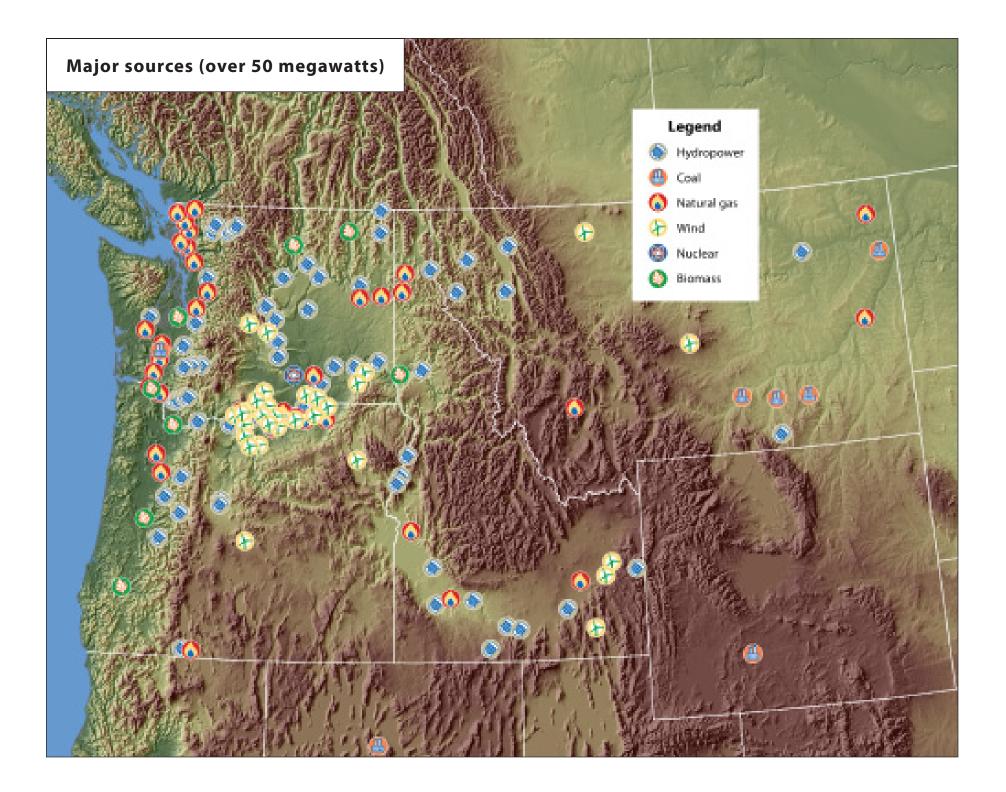




MARCH 2011

# **Electricity Generation for the Pacific Northwest**

also see interactive version at www.nwcouncil.org/maps/power >>



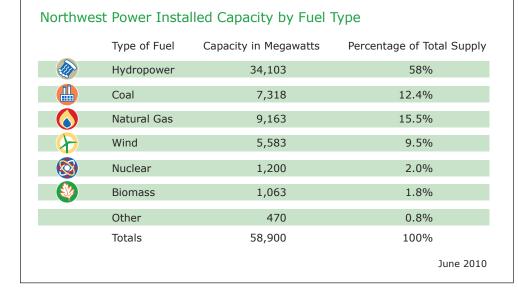
### **Major Power Plants of the Pacific Northwest**

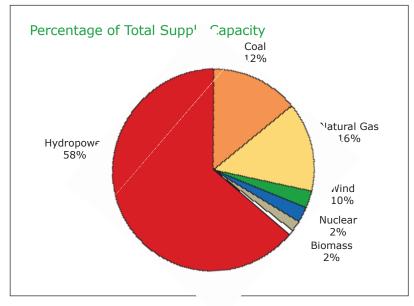
From the late 1800s, when the first hydropower turbines were installed on Northwest streams, into the 1960s, water power supplemented by small steam plants fueled by coal, oil, and wood, provided most of the electricity in the Pacific Northwest. Then, as population increased and the regional economy grew, demand for electricity surpassed the output of the dams. Other types of power plants were built, steadily adding to the region's electricity supply. Primarily, these were baseload coal and nuclear steam-electric plants and small peaking combustion turbines fueled by natural gas. Later, the system was further expanded by the addition of highly efficient natural gas combined-cycle plants. Recently, large numbers of wind turbine generators have been added to the system.

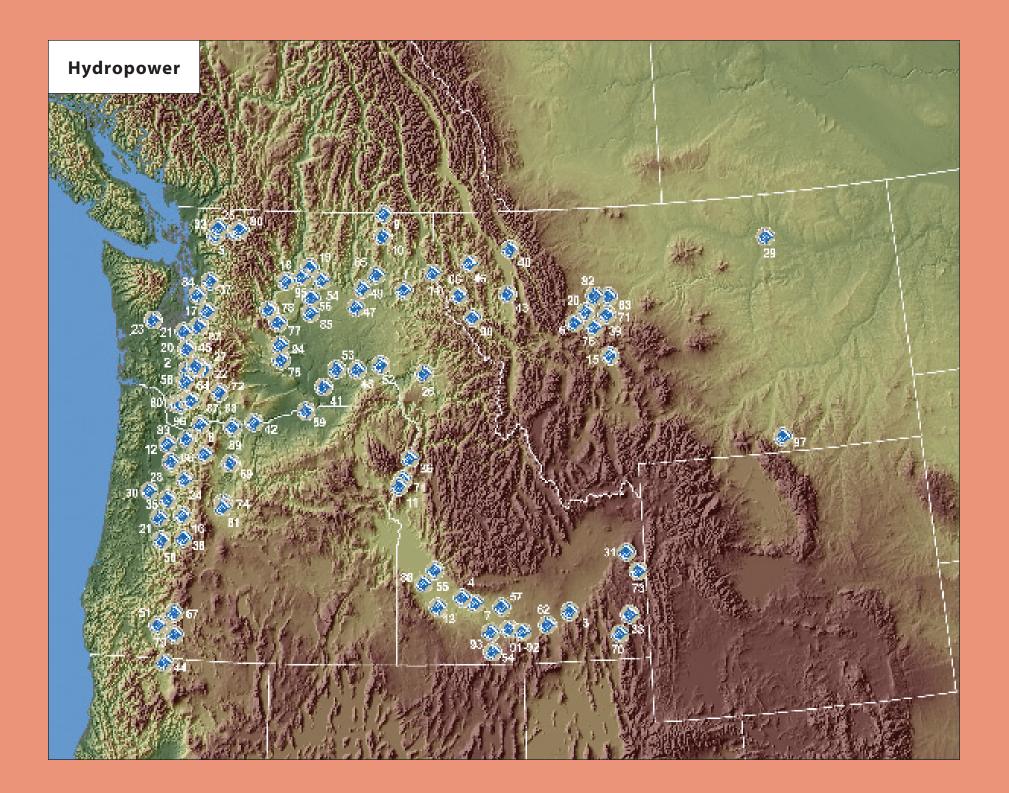
Electricity in the Northwest is still dominated by hydropower, which accounts for about 58 percent of the installed capacity. The amount of hydropower varies with water conditions. Most of the region's hydropower is generated on the Columbia River and its tributaries, but there are also dams on other rivers, particularly In this publication, the output of power plants is expressed in megawatts of capacity. A megawatt is 1 million watts. Capacity is the maximum power that can be produced by a power plant at specified times under specified conditions. One megawatt, provided continuously for one year, is enough electricity to power approximately 700 homes.

those that empty into Puget Sound. In years when precipitation and runoff are normal, the region's hydroelectric system can provide about 16,000 average megawatts of electricity (an average megawatt is one million watts supplied continuously for a period of one year). In approximate number, the amount can be as much as 20,000 in a wet year or as little as 12,000 in a dry year. About 12 percent of the region's electricity capacity is at plants that burn coal, with plants that burn natural gas providing 16 percent. The region's single operating nuclear plant, located in eastern Washington, accounts for about 2 percent of the region's capacity. In all, the region's power supply capacity totals about 59,000 megawatts.

The map in this brochure shows the diversity of the modern power supply in the Northwest, but not all of the power plants. The smallest plants are not shown because there are so many. The map also doesn't depict the most important resource to the Power and Conservation Council – energy efficiency. Consistent with the Northwest Power Act of 1980, the federal law that authorized the four Northwest states to create the Council, energy efficiency gets planning preference over all other sources of electricity to meet future demand for power. At a cost that is less than the cost of building new generating plants, measures can be implemented to improve energy efficiency — insulation, double-paned windows, compact fluorescent light bulbs, low-wattage traffic lights, and energy-efficient industrial motors, for example. Between 1983 (when the Council completed its first Northwest Power Plan) and 2008 more than 3,700 average megawatts of energy efficiency have been achieved in the Northwest. Expressed as energy generation, that is more than enough power for three cities the size of Seattle.









### Hydropower Facilities\*

Number	Project Name
1	Albeni Falls
2	Alder
3	American Falls
4	Anderson Ranch
5	Baker River Project <sup>(a)</sup>
6	Black Eagle
7	Bliss
8	Bonneville
9 10	Boundary Box Conven
10	Box Canyon Brownlee
11	Bull Run Project <sup>(b)</sup>
12	C.J. Strike
13	Cabinet Gorge
15	Canyon Ferry
16	Carmen-Smith
17	Cedar Falls
18	Chelan
19	Chief Joseph
20	Cochrane
21	Cougar
22	Cowlitz Falls
23	Cushman Project (c)
24 25	Detroit Diablo
25	Dworshak
20	Electron
28	Faraday
29	Fort Peck
30	Foster
31	Gem State
32	Gorge
33	Grace
34	Grand Coulee
35	Green Peter
36	Hell's Canyon
37	Henry M. Jackson
38 39	Hills Creek
39 40	Holter Hungry Horse
41	Ice Harbor
42	John Day
43	Kerr
44	Klamath Project (d)
45	LaGrande
46	Libby
47	Little Falls
48	Little Goose
49	Long Lake
50	Lookout Point
51	Lost Creek
52 53	Lower Granite Lower Monumental
53 54	Lower Monumental
JH	LUWEI JAIIIUII FAIIS

Capacity	Ouror
Capacity	Owner
42	U.S. Army Corps of Engineers
50 92	City of Tacoma Idaho Power Co.
92 40	U.S. Bureau of Reclamation
176	Puget Sound Energy
24	PPL Montana
75	Idaho Power Co.
1093	U.S. Army Corps of Engineers
1040	City of Seattle
60	Pend Oreille Co. PUD
585	Idaho Power Co.
36	City of Portland
83	Idaho Power Co.
265	Avista
50 114	U.S. Bureau of Reclamation City of Eugene (EWEB)
20	City of Seattle
48	Chelan Co. PUD
2456	U.S. Army Corps of Engineers
48	PPL Montana
26	U.S. Army Corps of Engineers
70	Lewis County PUD
124	City of Tacoma
100	U.S. Army Corps of Engineers
153	City of Seattle
400	U.S. Army Corps of Engineers
23 37	Puget Sound Energy
185	Portland General Electric U.S. Army Corps of Engineers
20	U.S. Army Corps of Engineers
23	City of Idaho Falls
207	City of Seattle
33	PacifiCorp
6495	U.S. Bureau of Reclamation
80	U.S. Army Corps of Engineers
392	Idaho Power Co.
112	Snohomish Co. PUD
30	U.S. Army Corps of Engineers
38	PPL Montana
428	U.S. Bureau of Reclamation
603 2160	U.S. Army Corps of Engineers U.S. Army Corps of Engineers
2100	PPL Montana
170	PacificCorp
65	City of Tacoma
525	U.S. Army Corps of Engineers
32	Avista
810	U.S. Army Corps of Engineers
71	Avista
120	U.S. Army Corps of Engineers
49	U.S. Army Corps of Engineers
810	U.S. Army Corps of Engineers

810 U.S. Army Corps of Engineers 60 Idaho Power Co.

Number	Project Name	Capacity	Owner
55	Lucky Peak	101	Boise Proj. Board of Control
56	Main Canal Headworks	26	S. Columbia Basin Irr. Dist.
57	Malad Project (e)	22	Idaho Power Co.
58	Mayfield	162	City of Tacoma
59	McNary	991	U.S. Army Corps of Engineers
60	Merwin	136	PacifiCorp
61	Milner	59	Milner Dam Inc.
62	Minidoka	28	U.S. Bureau of Reclamation
63	Morony	45	PPL Montana
64	Mossyrock	300	City of Tacoma
65	Nine Mile	26	Avista
66	North Fork	41	Portland General Electric
67	North Umpgua Project (f)	189	PacificCorp
68	Noxon Rapids	488	Avista
69	Oak Grove (Three Lynx)	51	Portland General Electric
70	Oneida	30	PacifiCorp
71	Oxbow	190	Idaho Power Co.
72	Packwood Lake	28	Energy Northwest
73	Palisades	176	U.S. Bureau of Reclamation
74	Pelton	110	PGE(2/3), Warm Springs Power Enterprises (1/3)
75	Priest Rapids	956	Grant Co. PUD
76	Rainbow	36	PPL Montana
77	Rock Island	624	Chelan Co. PUD
78	Rocky Reach	1300	Chelan Co. PUD
79	Roque Project (g)	44	PacifiCorp
80	Ross	339	City of Seattle
81	Round Butte	300	PGE(2/3), Warm Springs Power Enterprises (1/3)
82	Ryan	48	PPL Montana
83	Smith Creek (Smith Falls)	38	Smith Falls Hydropower
84	Snoqualmie Falls	45	Puget Sound Energy
85	Summer Falls	92	Columbia Basin Irr. Dists.
86	Swan Falls	25	Idaho Power Co.
87	Swift 1	240	PacifiCorp
88	Swift 2	70	Cowlitz PUD
89	The Dalles	1807	U.S. Army Corps of Engineers
90	Thompson Falls	88	PPL Montana
91	Twin Falls (IPC)	53	Idaho Power Co.
92	Twin Falls (TFHA)	20	Twin Falls Hydro Associates
93	Upper Salmon	35	Idaho Power Co.
94	Wanapum	1038	Grant Co. PUD
95	Wells	774	Douglas Co. PUD
96	Yale	134	PacifiCorp
97	Yellowtail	250	U.S. Bureau of Reclamation

a) Baker River Project: Upper Baker (105 MW), Lower Baker (71 MW)

b) Bull Run (Portland Hydro) Project: Bull Run 1 (24 MW), Bull Run 2 (12 MW)

c) Cushman Project: Cushman 1 (43 MW), Cushman 2 (81 MW)

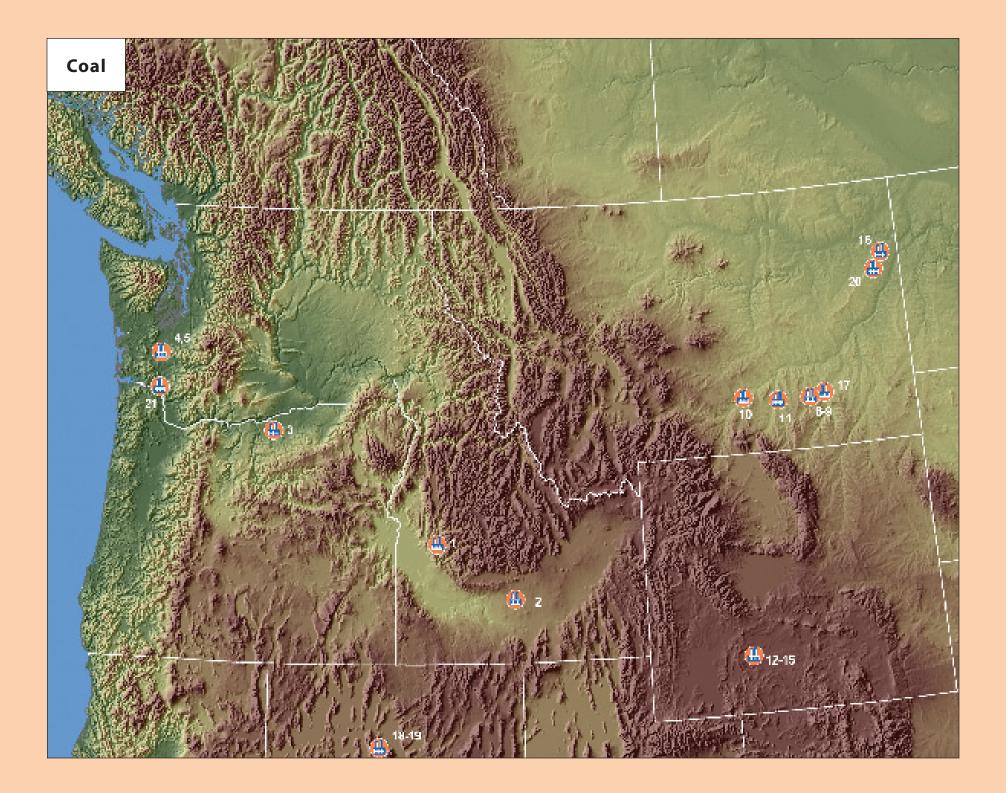
d) Klamath Project: COPCO 1 (20 MW), COPCO 2 (27 MW), East Side (3 MW), Iron Gate (18 MW), J.C. Boyle (99 MW), Keno (no generation), West Side (1 MW)

e) Malad Project: Lower Malad (14 MW), Upper Malad (8 MW)

f) North Umpqua Project: Clearwater 1 (15 MW), Clearwater 2 (26 MW), Fish Creek (11 MW), Lemolo 1 (32 MW) Lemolo 2 (33 MW), Slide Creek (18 MW), Soda Springs (11 MW), Toketee Falls (43 MW)

g) Rogue Project: Prospect 1 (4 MW), Prospect 2 (32 MW), Prospect 3 (7 MW), Prospect 4 (1 MW)

### \* Facilities of 20 megawatts or greater





# **Coal Facilities**

Number	Project Name	Capacity	Owner
1	Amalgamated Sugar (Nampa)	9	Amalgamated Sugar
2	Amalgamated Sugar (Twin Falls)	10	Amalgamated Sugar
3	Boardman	601	PGE (65%);GECC (15%); IPC (10%); Power Resources Cooperative (10%)
4	Centralia 1	730	TransAlta
5	Centralia 2	730	TransAlta
6	Colstrip 1	358	PPL Montana (50%); PSE (50%)
7	Colstrip 2	358	PPL Montana (50%); PSE (50%)
8	Colstrip 3	778	PPL Montana (30%); PSE (25%); PGE (20%), Avista (15%); PacifiCorp (10%)
9	Colstrip 4	778	NorthWestern (30%); PSE (25%); PGE (20%), Avista (15%); PacifiCorp (10%)
10	Corrette	173	PPL Montana
11	Hardin Generating Station	116	Rocky Mountain Power
12	Jim Bridger 1	578	PAC (67%); IPC (33%)
13	Jim Bridger 2	578	PAC (67%); IPC (33%)
14	Jim Bridger 3	578	PAC (67%); IPC (33%)
15	Jim Bridger 4	584	PAC (67%); IPC (33%)
16	Lewis & Clark (a)	50	Montana Dakota Utilities Co.
17	Montana One	42	Colstrip Energy, LP
18	North Valmy 1	254	SPP (50%); IPC (50%)
19	North Valmy 2	267	SPP (50%); IPC (50%)
20	Sydney Sugars	4	Holly Sugar Corp.
21	Weyerhauser (Longview)	31	Weyerhaeuser

a) Midwest Reliability Organization electrical liability area (not part of Western Interconnected System)

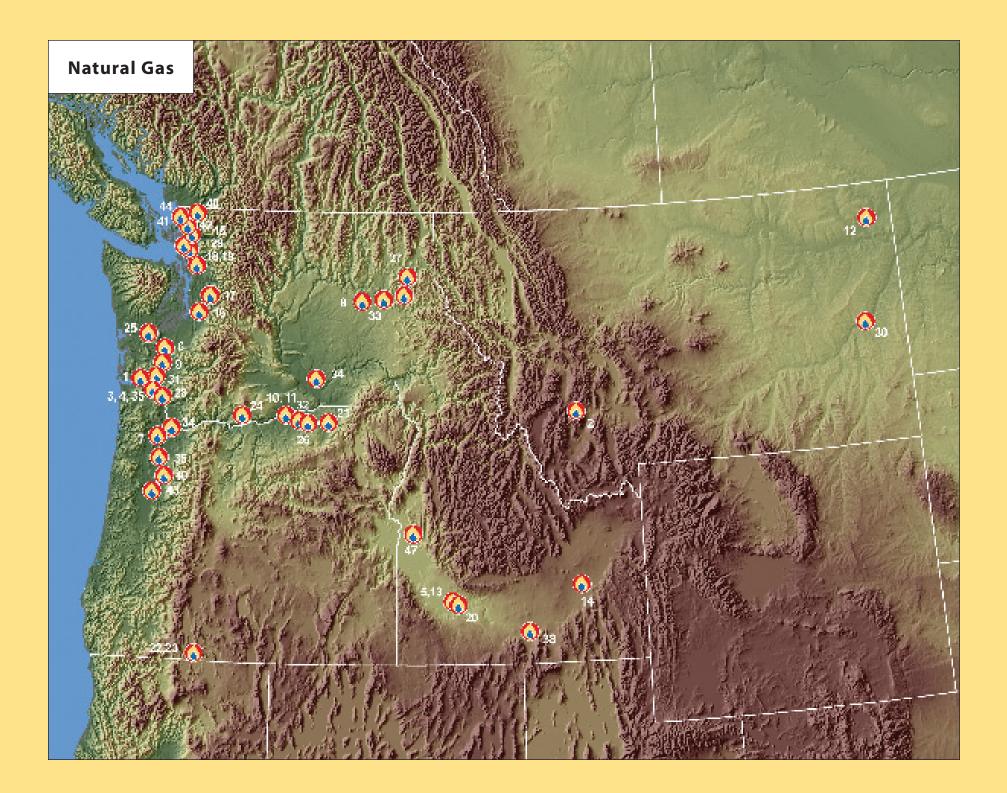
IPC - Idaho Power Co.

PGE - Portland General Electric

PAC - PacifiCorp

GECC - General Electric Credit Corp.

SPP - SIerra Pacific Power (Nevada Energy)

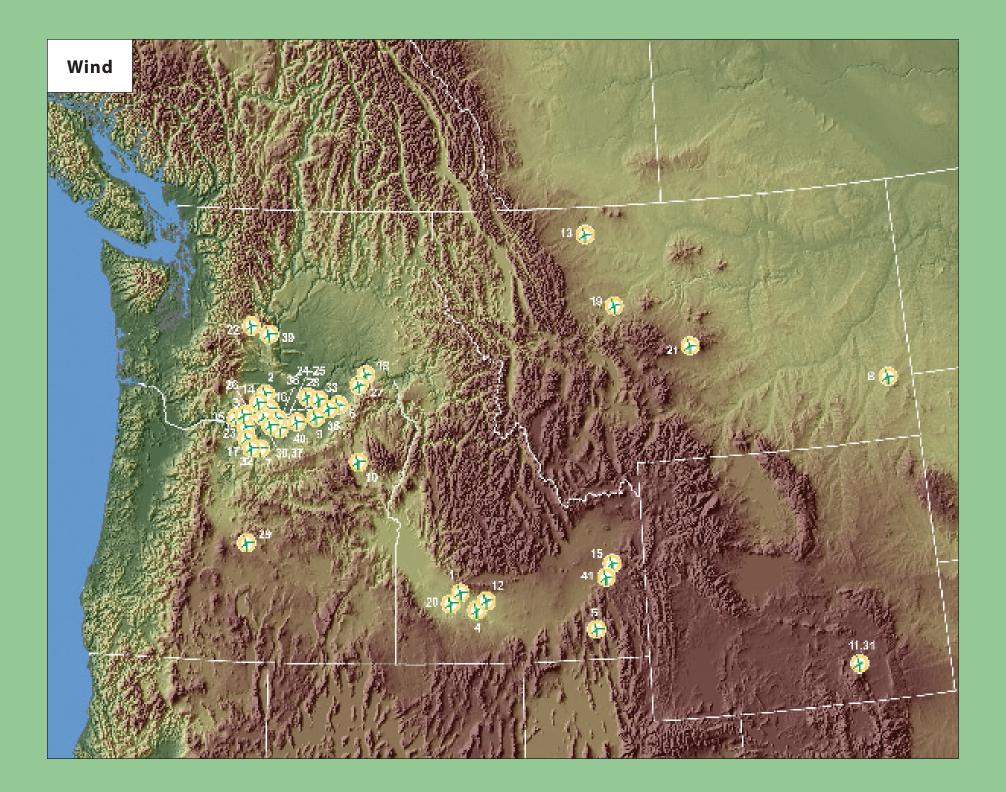




# **Natural Gas Facilities**\*

\* Facilities of 10 megawatts or greater

Akien Bailey (oka Wauma PeakingLoka)     11     Coperation PUD       Bener 1-7     565     Ben Creame Electric       Bener 1     7     566     Portand General Electric       Bener 1     Manafard     123     Electric General Electric       Bener 1     Manafard     123     Electric General Electric       Buile Herror Naper     123     Electric General Electric     124       Buile Herror Naper     123     Electric General Electric     124       Colords Springs 1     63     Avata     224       Colords Springs 1     126     Notand General Electric     124       Colords Springs 1     120     Spring 1     120       Colords Springs 1     120     Spring 1     120       Colords Springs 1     120     Spring 1     120       Colords 1     120     Portard Coord     130       Dari Kingt Cocatelon     130     Spring 1     130       Freedricks 1     120     Portard Coord Energy     120       Freedricks 1     120     Portard Coord Energy       Freedricks 1	Number	Project Name	Capacity	Owner	
Beaver 1-7     Steps     Partal and General Electric       Benett Mountain     171     Liabin Power Co.       Big Honaford     322     TransNa       Big Honaford     322     TransNa       Big Honaford     322     TransNa       Chebis Generating Facility     398     Pacific Ope       Chebis Son (a)     1017.2     208     Mata deneral Electric       Chebis Son (a)     10270.2     308     Paced Sonal Energy       Frederickson Nover     318     PCRO (S0%)/Waget Sound Energy     Sonal Energy       Frederickson Prover     318     PCRO (S0%)/Waget Sound Energy     Sonal Energy       Frederickson Prover     318     PCRO (S0%)/Waget Sound Energy     Sonal Energy       Frederickson Prover Sound Energy     Frederickson Prover Sound Energy     Sonal Ene	1	Alden Bailey (aka Wauna Peaking/Loki)	11	Clatskanie PUD	
4     Beaver B     Fordard General Electric       5     Bennet Mountain     173     Idain Over Co.       6     Big Hendford     220     TransAta       7     Billse Henn Raper     15     Bute Henn Raper Co.       8     Bolder Park 1-6     220     Karland General Electric       9     Chebails Generating Facility     399     Pacificorp       10     Coyde Springs 1     260     Partinad General Electric       11     Coyde Springs 1     260     Partinad General Electric       12     Cubetston (a)     9     Ballach Power Co.       13     Danskin CT 1-3     1@170, 2895     Idaho Power Co.       14     Don Park (Simpider Poxetello)     16     Binget Leasing Corp       15     Encogen 1-4     176     Paget Sound Energy       16     Frederickson 1-8 2     200129     Paget Sound Energy       17     Frederickson 1-8 2     20029     Paget Sound Energy       18     Fredoria 3-8 4     2099     Paget Sound Energy       19     Fredonia 3-8 2     20029     Padet Sound	2	Basin Creek 1 - 9	55	Basin Creek Power	
5     Bennett Mountain     10       6     Bij Hendford     322       7     Bibu Henon Paper     13       8     Boulder Park 1 - 6     23       9     Chehls Generating Facility     39       9     Chehls Generating Facility     39       10     Corde Springs 1     266       11     Corde Springs 2     28       12     Cubertson (a)     91       13     Dankin CT 1 - 3     1@170, 285       14     Don Plant (Simplet Pocatello)     16       15     Encogn 1.4     10       16     Frederickson Now     318       17     Prederickson Now     318       18     Fredonia 18.2     2802       19     Fredonia 18.4     2802       10     Geners Ferry Cogeneration     10       11     Prederickson Now     318       11     Fredonia 18.4     2802       12     Geners Ferry Cogeneration Ferry     Geners Ferry Cogeneration Ferry       13     Barifkorn Korban Commenting Co. (S0%)     Herriston Ge	3	Beaver 1 - 7	586	Portland General Electric	
6     Big Handrod     122     TransAta       7     Bis Henor Pager     132     TransAta       8     Boulder Park 1 - 6     23     Avista       9     Chehals Generating Facility     539     Pacific.Cop       9     Chehals Generating Facility     539     Pacific.Cop       11     Coyder Springs 1     669     Xista       12     Cubertson (a)     91     Basin Electric Nower Cooperative       13     Danskin CT 1 - 3     10170, 2050     Iabin Dever Co.       14     Don Plant (Simple Devotatilo)     16     Simplet Lassing Corp       15     Encogen 1-4     176     Paget Sound Energy       16     Frederickson 18.2     20012     Paget Sound Energy       17     Frederickson 18.2     20012     Paget Sound Energy       18     Frederick Proper Coopenation     10     Glenns Ferry Coopenation     10       19     Frederick Proper Sound Energy     StafCorp (Stofk), Plaget Sound Energy (Stofk), Black Hills Energy (Stofk)     StafCorp (Stofk), Plaget Sound Energy       20     Glenns Ferry Coopenation     10 <td< td=""><td>4</td><td>Beaver 8</td><td>25</td><td>Portland General Electric</td><td></td></td<>	4	Beaver 8	25	Portland General Electric	
7     Blue Heron Paper     5     Blue Heron Paper Co.       8     Boulder Park 1 - 6     25     Aksta       9     Chahalis Generating Facility     399     ActiCorp       10     Coydet Springs 1     266     Portland General Electric       11     Coydet Springs 2     227     Aksta       12     Cubertson (a)     91     Basin Ederic Power Cooperative       13     Danskin CT 1 - 3     100170, 2680     Idaho Power Co.       14     Don Plant (Simplet Pocatelle)     16     Simplet Leasing Corp       15     Encogen 1.4     2069     Puget Sound Energy       16     Frederickson Power     318     EPCOR (30%)/Puget Sound Energy (50%)       17     Frederickson Power     318     EPCOR (30%)/Puget Sound Energy (50%)       18     Fredohia 1 & 2     20129     Puget Sound Energy       19     Fredohia 1 & 2     20235     Pacific Song Vaget Sound Energy       21     Goldendale     20     235     Pacific Song Vaget Sound Energy       22     Goldendale     20     235     Pacific Song Vaget Sound Ener	5	Bennett Mountain	173	Idaho Power Co.	
Boulder Park 1 - 6     25     Avista       9     Chehals Generating Facility     533     Pacific.cop       11     Coyde Springs 1     266     Portland General Electric       12     Cubertson (a)     91     Basin Electric Power Cooperative       13     Darskin CT 1 - 3     1@170, 2@50     Idaho Power Co.       14     Don Phart (Simpler Pocatello)     165     Encogen 1-4     To Puget Sound Energy       15     Encogen 1-4     176     Puget Sound Energy     Puget Sound Energy       16     Frederickson Power     318     ECYOK (50%)/Nyget Sound Energy (50%)     Puget Sound Energy       16     Frederickson Power     318     ECYOK (50%)/Nyget Sound Energy     Puget Sound Energy       17     Frederickson Power     318     ECYOK (50%)/Nyget Sound Energy     Puget Sound Energy       18     Predonia 34     2@99     Puget Sound Energy     Puget Sound Energy       20     Glenns Ferry Cogeneration Parkers (50%); Elack Hills Energy (50%)     Energina Contenergy (50%); Hermiston Energy (50%)       21     Grays Harbor Energy Facility (aka Satsop)     650     Invenergy (idao Grays Harbor Energy (50%); Herm	6	Big Hanaford	322	TransAlta	
9     Obelails Generating Facility     93     PacifiCorp       10     Coyde Springs 1     266     Portland General Electric       11     Coyde Springs 2     287     Avista       12     Culbertson (a)     91     Basin Electric Power Coperative       13     Darskin CT 1-3     109170, 2950     Lada Power Co.       14     Don Plant (Simplot Pocatello)     16     Simplot Leasing Corp       15     Encogen 1-4     Prederictson Power     318     PCOR (50%)/Puget Sound Energy       16     Frederictson Power     318     PCOR (50%)/Puget Sound Energy     Coment	7	Blue Heron Paper	15	Blue Heron Paper Co.	
Coyete Springs 1 266 Portiand General Electric   11 Coyete Springs 2 287 Avista   12 Culvertson (a) 91 Basin Electric Power Cooperative   13 Danskin CT 1 - 3 1@1D/0, 2@50 Idaho Power Co.   14 Don Plant (Simplet Pocatello) 16 Simplet Leasing Corp   15 Encagen 1-4 176 Puget Sound Energy   16 Frederickon Power 318 EPCOR (50%)/Puget Sound Energy   17 Frederickon Power 318 EPCOR (50%)/Puget Sound Energy   18 Fredonia 1& 2 2@89 Puget Sound Energy   19 Fredonia 1& 2 2@9 Puget Sound Energy   20 Glenns Ferry Cogeneration 10 Glenns Ferry Cogeneration Partners (50%); Black Hills Energy (50%)   21 Goldendale 20 Puget Sound Energy   22 Grays Harbor Energy Facility (aka Satsop) 650 Invenergy (Dagina Harbor Energy)   23 Hermiston Cenerating Project 1 & 2 2 Q 20 Puget Sound Energy   24 Hermiston Ceneration Project 639 Electricia Renewables   25 Klamath Generation Project 536 Iberdrola Renewables   26 Klamath Generation Peakers 1 - 4 4@25 Energy Invesor	8	Boulder Park 1 - 6	25	Avista	
11   Coyote Springs 2   27   Avista     12   Culbertson (a)   91   Basin Electric Power Co.     13   Dankin CT 1 - 3   1@JD, Q.200   Idaho Power Co.     14   Don Plant (Simplot Pocatello)   16   Simplot Leasing Corp     15   Encogen 1.4   70   Puget Sound Energy     16   Frederickson 1 & 2   2@89   Puget Sound Energy     17   Frederickson Power   318   EPCOR (50%)/Puget Sound Energy     18   Fredorial 3 & 4   2@129   Puget Sound Energy     19   Fredorial 3 & 4   2@129   Puget Sound Energy     19   Fredorial 3 & 4   2@129   Puget Sound Energy     20   Gelens Ferry Cogeneration   10   Gelens Ferry Cogeneration Partners (50%); Black Hills Energy (50%)     21   Goldendale   2@   2@2   PaditCorg (50%), Hermiston Generating Co. (50%)     22   Grays Harbor Energy Facility (ak Satsop)   650   Invenergy (Maa Gays Harbor Energy)     23   Hermiston Generating Project 1 & 2   2   2   Padit Corg (50%), Hermiston Generating Co. (50%)     24   Hermiston Generating Project 1 & 4   4@25   <	9	Chehalis Generating Facility	593	PacifiCorp	
12 Cubertson (a) 1 Basin Electric Power Cooperative   13 Danskin CT 1 - 3 1@170, 2@50 Idaho Power Co.   14 Don Plant (Simplot Pocatello) 16 Simplot Lessing Corp   15 Encogen 1-4 176 Puget Sound Energy   16 Frederickson 18.2 2@69 Puget Sound Energy   17 Frederickson Power 318 EPCOR (50%)/Puget Sound Energy   18 Fredonia 18.2 2@129 Puget Sound Energy   19 Fredonia 18.2 2@129 Puget Sound Energy   20 Glenns Ferry Cogeneration 10 Glenns Ferry Cogeneration Patters (50%); Black Hills Energy (50%)   21 Gidendale 20 Puget Sound Energy   22 Grays Harbor Energy Facility (aka Satson) 650 Invenergy (fab Grays Harbor Energy)   24 Hermiston Generating Project 18.2 2 2 2   25 Rainath Cogeneration Project 18.2 2 2 2   26 Klamath Cogeneration Project 1.4 4@25 1berdrola Renevables   27 Lancaster 70 Energy Investor Funds (80%, Goldman Sachs (20%)   28 Kongview Fibre 8 688 KuAr Reources   29 March Point 1 - 4 167 March Point Assoca	10	Coyote Springs 1	266	Portland General Electric	
3     Danskin CT 1 - 3     (b) 170, 2950     Idaho Power Co.       14     Don Plant (Simplot Pocatello)     16     Simplot Leasing Corp       15     Encogen 1-4     176     Puget Sound Energy       16     Frederickson Nower     318     EPCOR (50%)/Puget Sound Energy (50%)       17     Frederickson Power     318     EPCOR (50%)/Puget Sound Energy (50%)       18     Fredonia 1 & 2     2(012)     Puget Sound Energy       19     Fredonia 1 & 2     2(012)     Puget Sound Energy       19     Fredonia 1 & 2     2(012)     Puget Sound Energy       20     Gleans Ferry Cogeneration     10     Gleans Ferry Cogeneration Proteinergy (150%)       21     Goldendale     200     Puget Sound Energy     2(05)       23     Hermiston Generating Project 1 & 2     2     2     2     2       23     Hermiston Generation Project     536     Iberdrola Renewables     1eardrola Renewables       24     Hermiston Generation Pokers 1 - 4     4(02)     Iberdrola Renewables     1eardrola Renewables       25     Kamath Cogeneration Project     536	11	Coyote Springs 2	287	Avista	
Image: Second December 2     Simplet Leasing Corp       15     Encogen 1-4     176     Puget Sound Energy       16     Frederickson 18.2     2@89     Puget Sound Energy       17     Frederickson Power     318     EPCOR (50%)/Puget Sound Energy (50%)       18     Fredonia 18.2     2@129     Puget Sound Energy       19     Fredonia 18.4     2@99     Puget Sound Energy       20     Glenns Ferry Cogeneration     10     Glenns Ferry Cogeneration Partners (50%); Black Hills Energy (50%)       21     Goldendale     200     Puget Sound Energy       22     Grays Harbor Energy Facility (aka Satsop)     650     Invenergy (dba Grays Harbor Energy)       23     Hermiston Power Project     639     Calpine, dba Hermiston Power Partners       24     Hermiston Cogeneration Project 1.8.2     2.0     2.6       25     Klamath Cogeneration Project 1.8.2     2.0     2.6       26     Klamath Cogeneration Project 1.8.2     2.0     Energy Investor Funds (80%, Goldman Sachs (20%)       26     Klamath Cogeneration Packers 1 - 4     4.025     Energy Investor Funds (80%), Goldman Sachs (20%)       <	12	Culbertson (a)	91	Basin Electric Power Cooperative	
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16 Frederickson 1 & 2 2@8 Puget Sound Energy   17 Frederickson Power 318 EPCOR (50%)/Puget Sound Energy (50%)   18 Fredonia 1 & 2 2@9 Puget Sound Energy   19 Fredonia 1 & 2 2@99 Puget Sound Energy   20 Glenns Ferry Cogeneration 10 Glerns Ferry Cogeneration Partners (50%); Black Hills Energy (50%)   21 Goldendale 20 Puget Sound Energy   22 Grays Harbor Energy Facility (aka Satsop) 650 Invenergy (dba Grays Harbor Energy (b)   23 Hermiston Generation Project 1 & 2 2 @ 2.35 Pacificorg (50%), Hermiston Generation Co. (50%)   24 Hermiston Cogeneration Project 536 Iberdrola Renewables   25 Klamath Cogeneration Project 536 Iberdrola Renewables   26 Klamath Cogeneration Project 68 KVA Resources   29 March Point 1 - 4 167 March Point 2 March Point 2 Marco Power   20 Mortow Power 29 Morthan Dakat Uilties Co.   31 Miter Gruf (a) 20 Puget Sound Energy   32 Mortow Power 203 Morthan Dakat Sources   33 Northeast 1 & 2 2031 Avista   34 Pacos GT 1 - 4 4@11 <	14	Don Plant (Simplot Pocatello)	16	Simplot Leasing Corp	
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	44	Whitehorn	2@85	Puget Sound Energy	(MRO) Interconnection

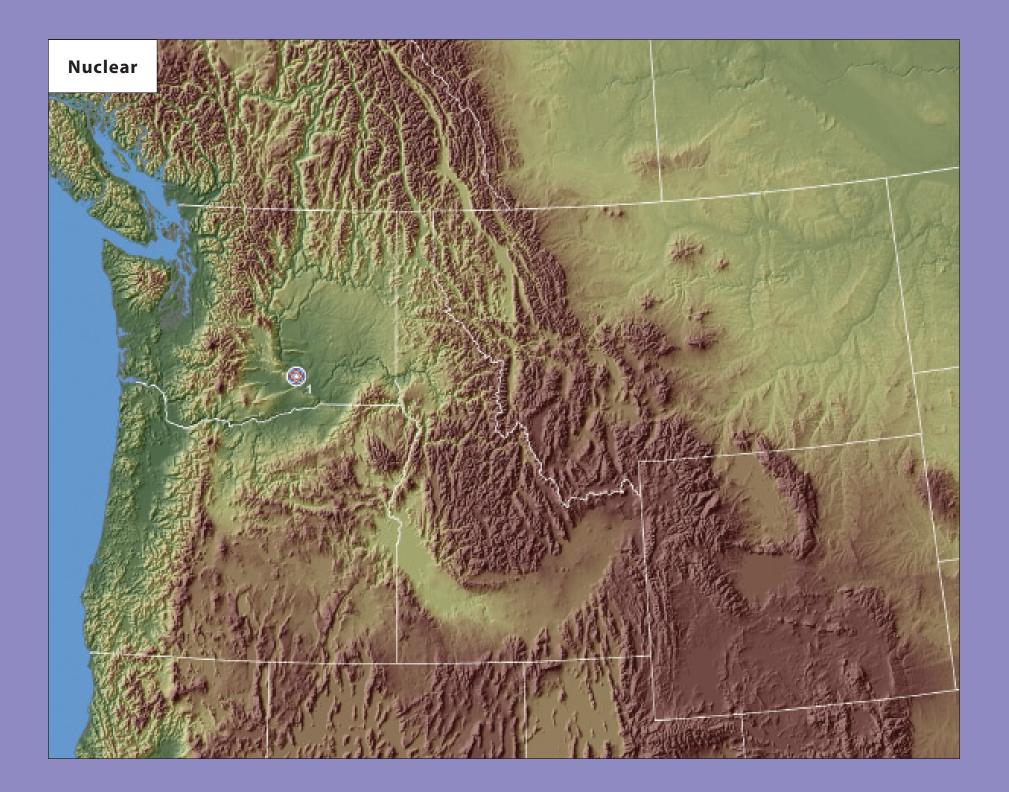




# Hind Facilities\*

\* Facilities of 10 megawatts or greater

Number	Project Name	Capacity	Owner	
1	Bennett Creek	21	Exelon (John Deere Renewables)	
2	Big Horn I & II	249	Iberdrola Renewables	
3	Biglow Canyon I, II & III	450	Portland General Electric	
4	Cassia	46	John Deere Renewables	
5	Cassia Gulch	19	Exelon (John Deere Renewables)	
6	Combine Hills I & II	104	Eurus Energy America, Inc.	
7	Condon	50	Goldman Sachs, AES SeaWest	
8	Diamond Willow (a)	20	MDU Utilities	
9	Echo Wind Farms	65	John Deere Renewables	
10	Elkhorn Valley	100	Horizon Wind Energy	
11	Foote Creek I - IV	83	Caithness Energy	
12	Fossil Gulch	11	Exergy Development Corp.	
13	Glacier Wind Energy I & II	210	NaturEner	
14	Goodnoe Hills	94	PacifiCorp	
15	Goshen North	125	Ridgeline Energy/BP Wind Energy	
16	Harvest Wind	99	Cowlitz PUD (30%), Lakeview L&P (30%), Peninsula Light (20%) 8	& EWEB (20%).
17	Hay Canyon	101	Iberdrola Renewables	
18	Hopkins Ridge	157	Puget Sound Energy	
19	Horseshoe Bend	21	United Materials	
20	Hot Springs	183	Exelon (John Deere Renewables)	
21	Judith Gap	135	Invenergy	
22	Kittitas Valley	101	Horizon Wind Energy	
23	Klondike II, III and IIIA	399	Iberdrola Renewables	
24	Leaning Juniper I	101	PacifiCorp	
25	Leaning Juniper II	201	S. CA Public Power Authority	
26	Linden Ranch	50	S. CA Public Power Authority	
27	Marengo I & II	211	PacifiCorp	
28	Nine Canyon	96	Energy Northwest	
29	Pebble Springs	99	Iberdrola Renewables	
30	Rattlesnake Road	103	Horizon Wind Energy	
31	Rock River I	50	Shell WindEnergy, Inc.	
32	Star Point	99	Iberdrola Renewables	
33	Stateline	300	NextEra Energy Resources	
34	Tuana Springs	11	Idaho Wind Partners	
35	Tuolumne	137	Turlock Irrigation District & Walnut Energy Center Authority	
36	Vansycle I & II	124	NextEra Energy Resources	
37	Wheat Field	97	Horizon Wind Energy	
38	White Creek	205	Lehman Brothers, Prudential Capital Group, Summit Power	
39	Wild Horse I, II & Expansion	317	Puget Sound Energy	
40	Willow Creek	72	Invenergy	a) Midwest Reliability Organization
41	Wolverine Creek	65	Invenergy	(MRO) Interconnection



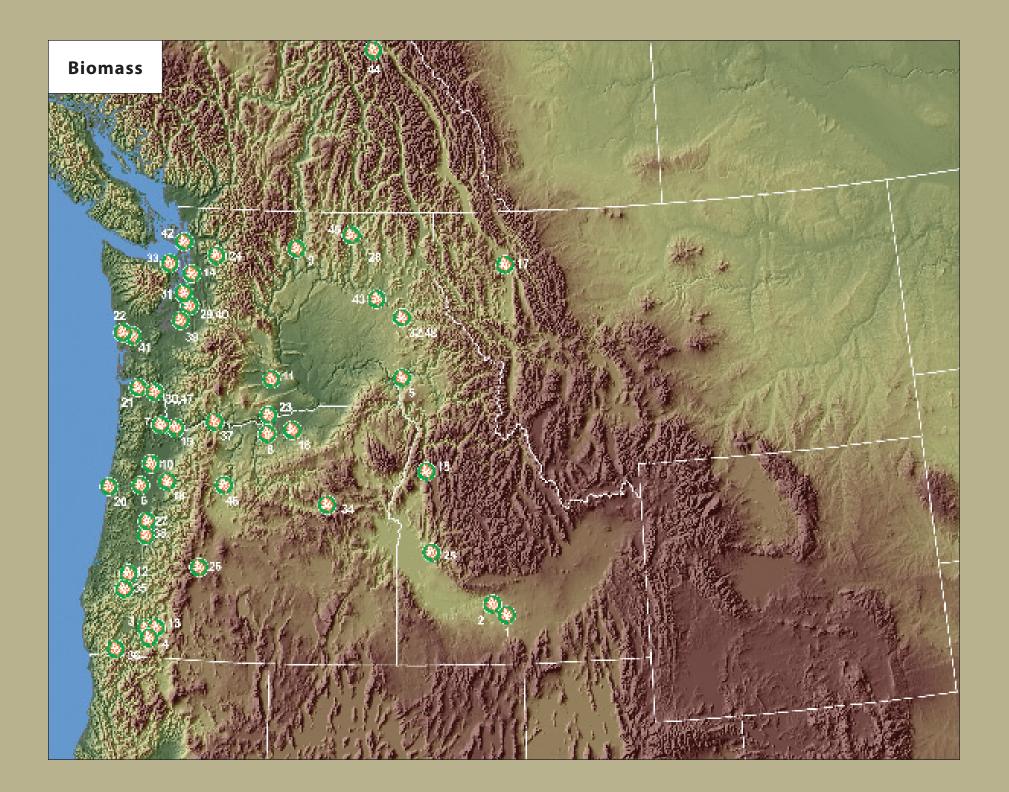


# 🚳 Nuclear Facility

Number	Project Name	Capacity	Owner
1	Columbia Generating Station	1200	Energy Northwest



Columbia Generating Station, Richland, Washignton

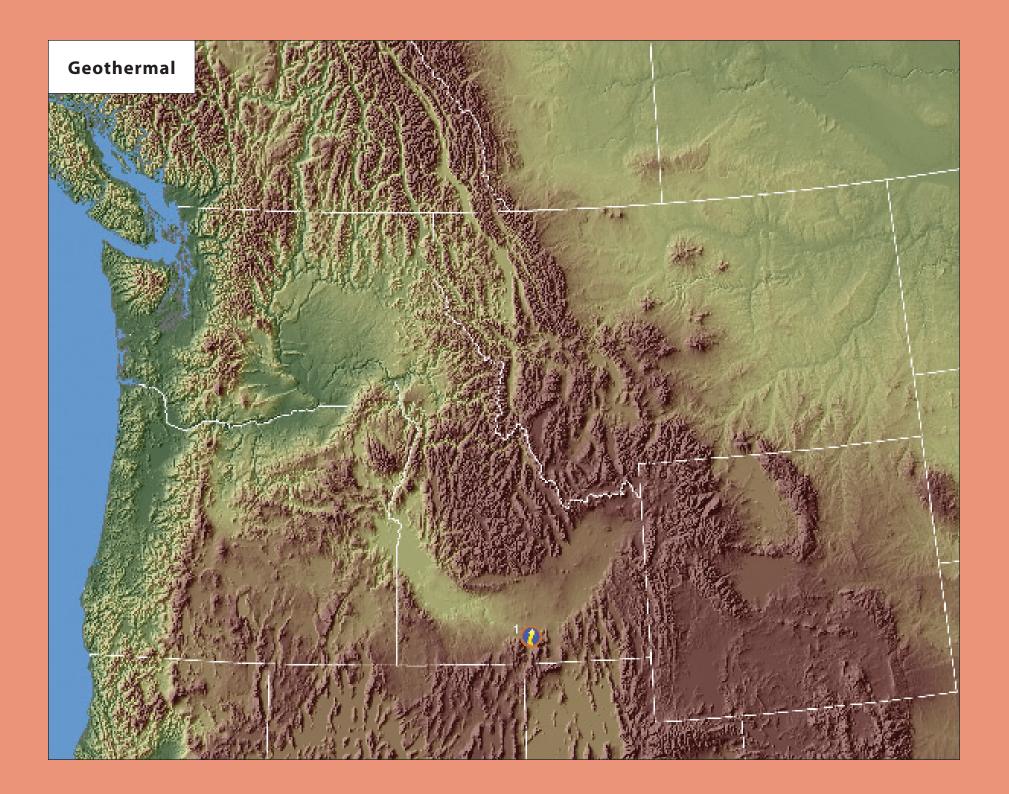




## **Biomass Facilities\***

### \* Facilities of 1 megawatt or greater

Number	Project Name	Primary Fuel	Capacity	Owner
1	Bettencourt Dry Creek Biofactory	Animal Waste Digestor Gas	5	Cargill Environmental Finance
2	Big Sky West Dairy Digester	Animal Waste Digestor Gas	2	Dean Foods Co./AgPower Partners
3	Biomass One	Woody Residues	25	Biomass One
4	Boise (Medford)	Woody Residues	9	Boise Cascade
5	Clearwater Paper	Black Liquor	113	Clearwater Paper
6	Coffin Butte	Landfill Gas	5	Power Resources Cooperative
7	Columbia Blvd Wastewater Treatment Plant	Wastewater Digestor Gas	2	City of Portland
8	Columbia Ridge Landfill	Landfill Gas	6	Waste Management
9	Colville Indian Power & Veneer	Woody Residues	25	Colville Tribal Enterprise Corporation
10	Covanta Marion	Municipal Solid Waste	13	Ogden-Martin
11	DeRuyter Dairy	Animal Waste Digestor Gas	1	DeRuyter Dairy
12	Douglas County Forest Products	Woody Residues	3	Douglas County Forest Products
13	Dry Creek Landfill	Landfill Gas	3	Oregon Environmental Industries
14	Everett Cogeneration Project	Black Liquor	42	Snohomish Co. PUD
15	Evergreen Forest Products	Woody Residues	6	Tamarack Energy Corp
16	Finley Buttes Regional Landfill	Landfill Gas	3	Finley Bioenergy
17	Flathead County Landfill	Landfill Gas	2	Flathead Electric Cooperative
18	Freres Lumber	Woody Residues	10	Evergreen Biopower
19	Georgia-Pacific (Camas)	Black Liquor	52	PacifiCorp
20	Georgia-Pacific (Toledo)	Black Liquor	30	Georgia-Pacific
21	Georgia-Pacific (Wauna)	Black Liquor	36	Clatskanie Co. PUD; EWEB
22	Grays Harbor Paper	Woody Residues	16	Grays Harbor Paper/Grays Harbor PUD
23	H.W. Hill (Roosevelt Biogas)	Landfill Gas	11	Klickitat Co. PUD
24	Hampton Lumber	Woody Residues	7	Hampton Lumber Co.
25	Hidden Hollow	Landfill Gas	3	G2 Energy
26	Interfor Pacific Gilchrist	Woody Residues	2	Interfor Pacific
27	International Paper (Springfield 4)	Woody Residues	52	Weyerhaeuser
28	Kettle Falls Generating Station	Woody Residues	51	Avista
29	King County Wastewater Treatment Plant	Wastewater Digestor Gas	8	King County Wastewater Treatment Div.
30	Longview Fibre 1 - 7	Black Liquor	67	Longview Fibre
31	Metro West Point Treatment Plant 1-3	Wastewater Digestor Gas	4	King County Dept. of Natural Resources
32	Plummer Forest Products	Woody Residues	6	Plummer Forest Products
33	Port Townsend Paper	Black Liquor	14	Port Townsend Paper
34	Prairie Wood Products (Cogen I)	Woody Residues	8	Prairie Wood Products Co-gen Co.
35	Roseburg Forest Products (Dillard)	Woody Residues	52	Roseburg Forest Products
36	Rough & Ready Lumber	Woody Residues	1	Rough & Ready Lumber
37	SDS Lumber (Gorge Energy)	Woody Residues	10	SDS Lumber
38	Short Mountain	Landfill Gas	3	Emerald PUD
39	Simpson Tacoma Kraft Cogeneration	Black Liquor	55	Simpson Tacoma Kraft
40	South Treatment Plant	Wastewater Digestor Gas	10	King County
41	SPI Aberdeen	Woody Residues	18	Sierra Pacific Industries
42	SPI Burlington	Woody Residues	30	Sierra Pacific Industries
43	Spokane Waste-To-Energy	Municipal Solid Waste	26	City of Spokane (Wheelaborator)
44 45	Stahlbush Island Farms	Animal Waste Digestor Gas	2 4	Stahlbush Island Farms
45	Vaagen Brothers Lumber	Woody Residues		Vaagen Brothers Lumber
46	Warm Springs Forest Products	Woody Residues	9 64	Warm Springs Forest Products Industries
47 48	Weyerhaeuser (Longview) Wood Power	Black Liquor Woody Residues	6	Weyerhaeuser Pacific Crown
-10		woody Residues	U	



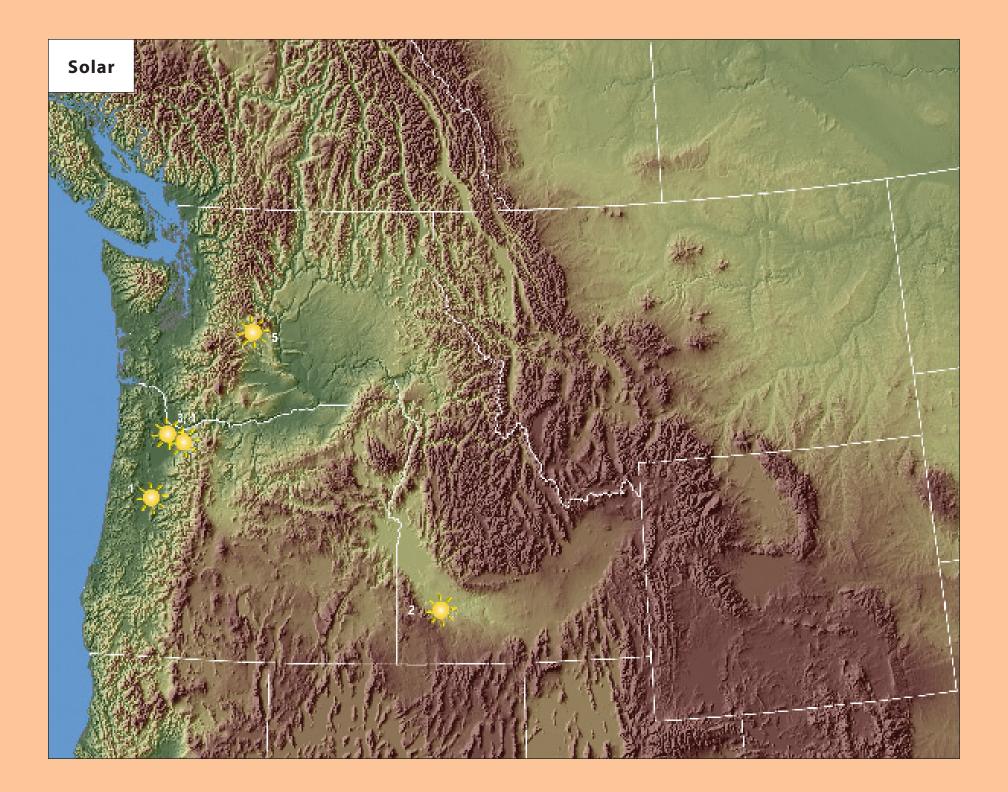


# **Geothermal Facility**

Number	Project Name	Capacity	Owner
1	Raft River	15.8	U.S. Geothermal Co.



Raft River Geothermal Project





2

# 🔆 Solar Facilities

Number	Project Name	

#### Owner Capacity

< 0.1

0.1

0.9

3.5

0.5

- Kettle Foods 1
  - Mountain Home AFB PV
- 3 Portland Habilitation Center
- 4 ProLogis
- Wild Horse Solar 5

- USAF Portland Habilitation Center MMA Renewable Ventures
- Puget Sound Energy

Kettle Foods





The Northwest Power and Conservation Council was authorized by the 1980 Pacific Northwest Electric Power Planning and Conservation Act to give the citizens of Idaho, Montana, Oregon and Washington a stronger voice in determining the future of key resources common to all four states — namely, the electricity generated at, and fish and wildlife affected by, the Columbia River Basin hydropower dams.

The Council is a unique organization that helps the Pacific Northwest make critical decisions that balance the multiple uses of the Columbia River and its tributaries.



851 S.W. Sixth Avenue Suite 1100 Portland, Oregon 97204

503-222-5161 or 800-452-5161 www.nwcouncil.org

Council document 2010-16



**Interactive maps** include more project details, photos, navigation, layers, and more. See www.nwcouncil.org/maps/power