

# APPENDIX A

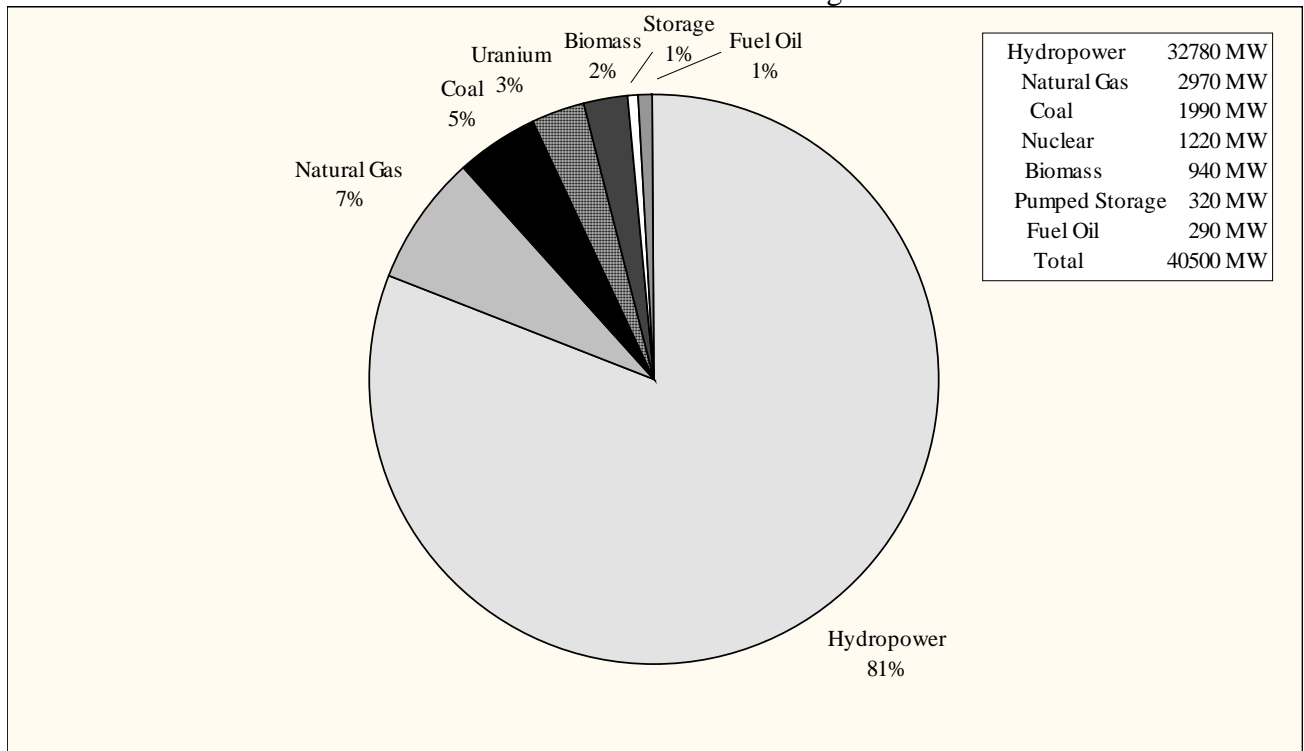
## PACIFIC NORTHWEST GENERATING RESOURCES

This Appendix describes the electric power generating resources of the Pacific Northwest. The first part of the appendix provides an overview; the latter portion includes tables describing individual projects.

### GENERATING CAPACITY

Over 460 electricity generating projects are located in the Pacific Northwest region. These projects provide about 40,570 megawatts of generating capacity and range in size from tens of kilowatts to the 6,500-megawatt Grand Coulee Dam. The primary energy source for most of this capacity is hydropower, followed by natural gas, coal, uranium (nuclear) and biomass. A small portion (about 320 megawatts) is pumped storage hydropower. The primary energy resource composition and generating capacity of power plants located in the Northwest is shown in

**Figure A-1**  
Capacity and primary energy resource base of power plants located within the Pacific Northwest region

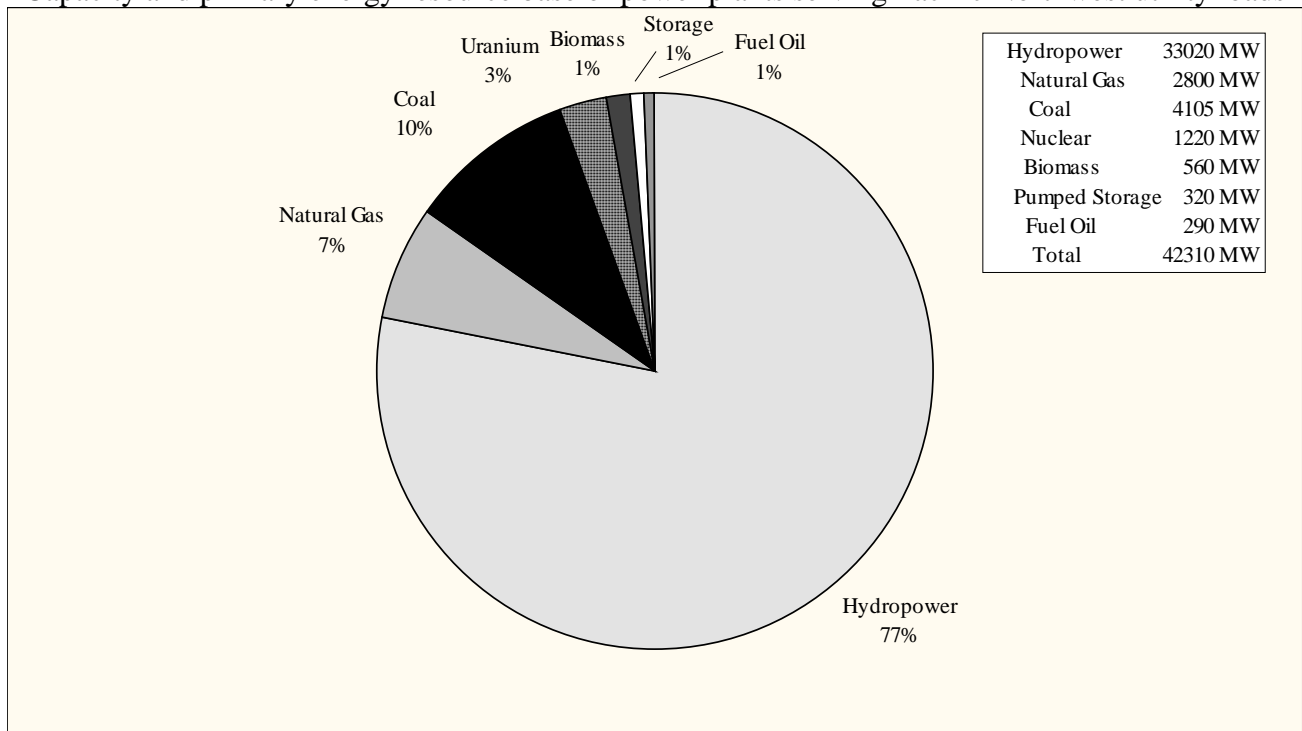


The capacity described above is physically located within the Pacific Northwest region as defined in the Pacific Northwest Electric Power Planning and Conservation Act (Power Act).<sup>1</sup> Another way of viewing the generating resources of the Northwest is based on projects historically dedicated to Northwest utility load. This approach, though declining in significance because of increased wholesale market activity, includes several large powerplants that though outside the geographic boundaries of the region as defined in the Power Act, are electrically interconnected to the Western system through the Northwest transmission grid.

Projects providing approximately 42,200 megawatts of generating capacity are currently dedicated to Northwest utility loads (Figure A-2). Because of the inclusion of additional coal-fired capacity owned by utilities operating in the Pacific Northwest but physically located outside the “Region,” Figure A-2 shows coal as a more significant primary energy resource. The proportion of natural gas and biomass resources are less than in Figure A-1 because of the exclusion in Figure A-2 of plants serving non-utility loads. Most of the latter are industrial cogeneration plants fueled by natural gas or biomass.

**Figure A-2**

Capacity and primary energy resource base of power plants serving Pacific Northwest utility loads

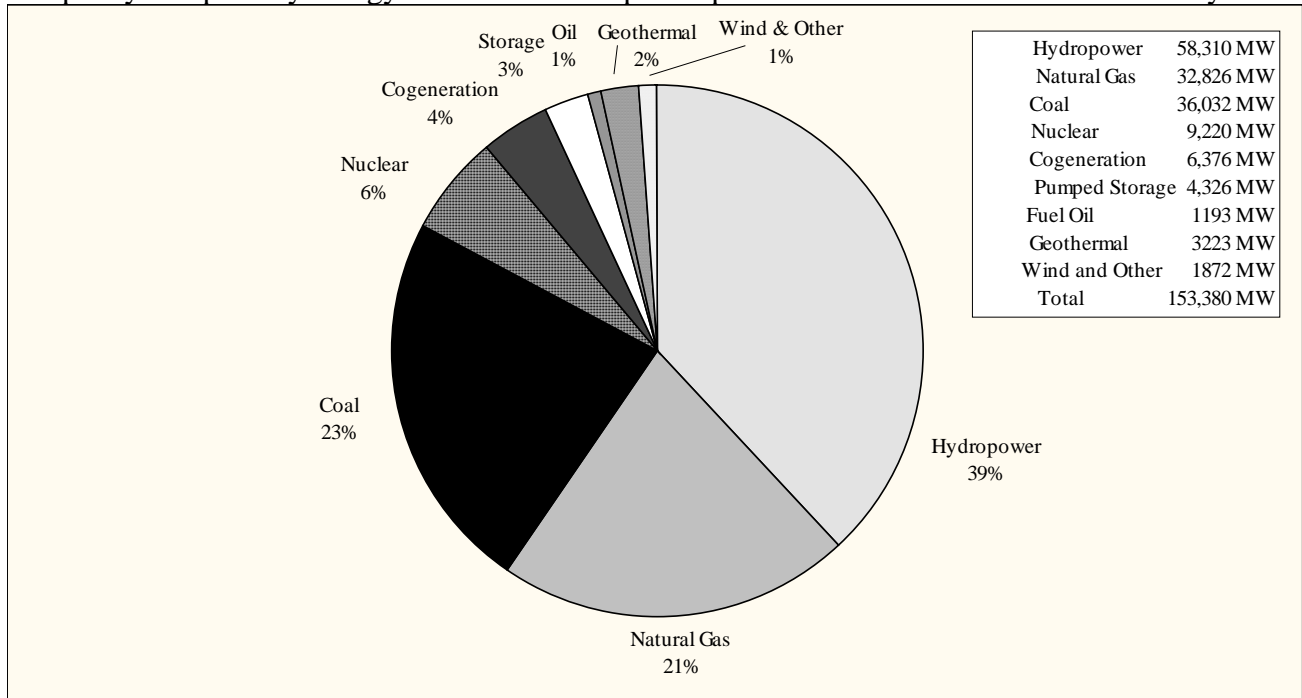


<sup>1</sup> “... the area consisting of the States of Oregon, Washington, and Idaho, the portion of the State of Montana west of the Continental Divide, and such portions of the States of Nevada, Utah and Wyoming as are within the Columbia River drainage basin; and any contiguous areas, not in excess of seventy-five air miles from (the area previously defined) which are a part of the service area of a rural electric cooperative customer served by the Administrator (of the Bonneville Power Administration) or on the effective date of this Act which has a distribution system from which it serves both within and without such region.” (P.L 96-501 3.(14)).

Because transmission costs are low relative to plant operating costs, loads will increasingly be served by plants having low variable operating costs, wherever these may be located on the western interconnected system. The westwide resource base is roughly four times as large, and much more diverse than that of the Northwest alone. Figure A-3 illustrates the resource composition and 1995 installed capacity of generating projects within the Western Systems Coordinating Council load area<sup>2</sup>.

**Figure A-3**

Capacity and primary energy resource base of power plants on the Western interconnected system



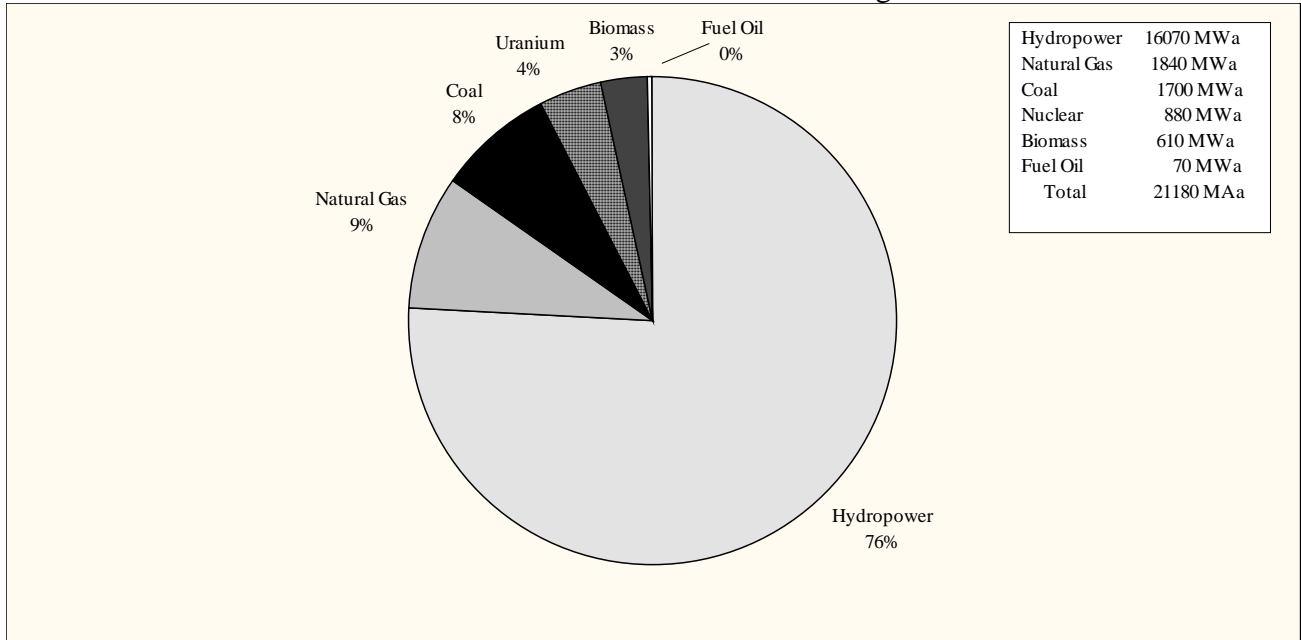
## Electric Energy

The preceding discussion focusses on generating capacity, i.e., the ability to produce electrical power. For most electrical systems, capacity is the limiting characteristic. However, in the Northwest, because the energy production potential of hydropower is limited by the availability of water, energy is the limiting factor. Average energy is the amount of energy that can be expected from the hydropower system in a typical year. Firm energy is a more conservative value used for planning purposes. In the Northwest, firm hydropower energy has been based on water availability during a sequence of historical dry years, and amounts to about three-quarters of average hydropower energy. Because of changes in the operation of the hydropower system to support fisheries restoration, the definition of firm energy has changed and may continue to change. Non-firm energy is the difference between average energy and firm energy.

<sup>2</sup> The Western Systems Coordinating Council load area comprises the fully interconnected and synchronized electric systems of Alberta, Arizona, British Columbia, California, Colorado, Idaho, Nevada, Oregon, Utah, Washington and Wyoming; the western portions of Montana and New Mexico; and small areas of western Texas, Nebraska, South Dakota and the Mexican States of Baja California Norte and Chihuahua.

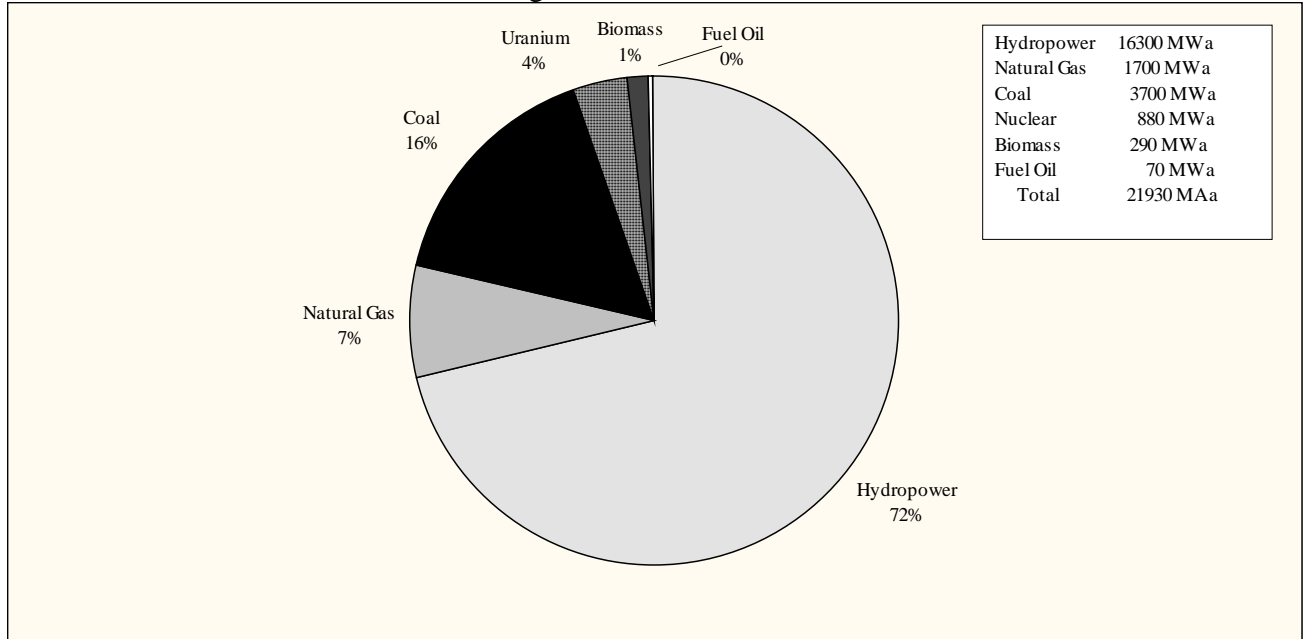
The average electric energy generating capability of resources located in the Northwest is about 21,180 average megawatts (Figure A-4).<sup>3</sup> That of resources dedicated to serving Pacific Northwest utility loads is about 22,930 average megawatts (Figure A-5). Because hydropower plants are generally oversized to better use peak period flows and to meet short-term peak electrical loads, hydropower, on an energy basis, comprises a somewhat smaller proportion of the array of resources. Because it is a net consumer of electric energy, pumped storage does not appear in Figure A-4.

**Figure A-4**  
 Energy generating capability and primary energy resource base of power plants located within the Pacific Northwest region



<sup>3</sup>An average megawatt is the amount of energy produced by one megawatt of capacity operating over a period of a year. One average megawatt is equal to 8,760,000 kilowatt-hours, 8,760 megawatt-hours and 8.76 gigawatt-hours.

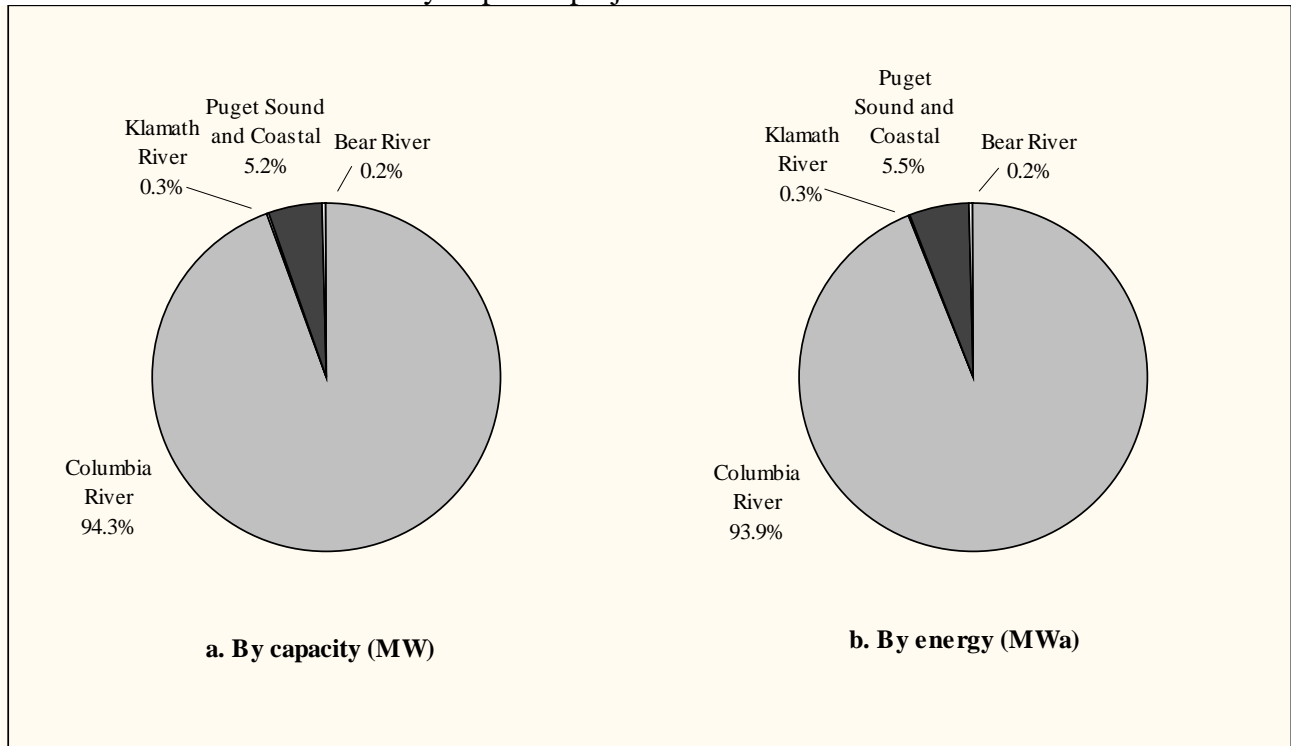
**Figure A-5**  
 Energy generating capability and primary energy resource base of power plants  
 serving Pacific Northwest loads



### Location of Hydropower

The Northwest region as defined in the Power Act includes portions of the Columbia, Klamath and Bear River basins and the Puget Sound and Coastal drainages of Oregon and Washington. However, 95 percent of the 32,780 megawatts of hydropower capacity located within the region are located on the Columbia River and its tributaries. Figure A-6 shows the hydropower capacity and energy contributions of the major river basins of the region.

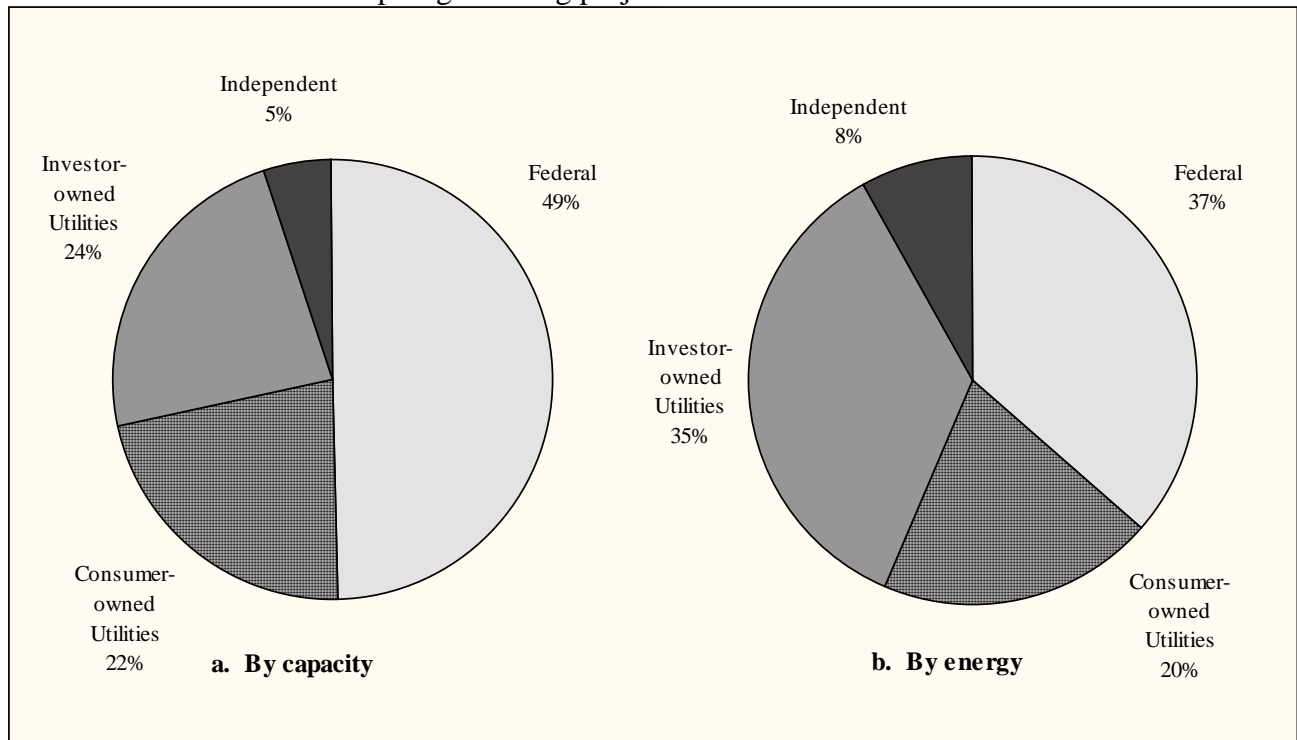
**Figure A-6**  
Location of hydropower projects within the Pacific Northwest



**Ownership**

Federally owned projects account for nearly 50 percent of the installed generating capacity in the Northwest (Figure A-7). The output of federal projects is marketed to consumer-owned and investor-owned utilities and to the direct-service industries. Some power produced at federal projects is used for irrigation water pumping on federally developed irrigation systems and for the electrical requirements of federal facilities such as the Hanford Works. Excess power from federal projects is sold outside the Northwest. Power from utility-owned projects is used to serve utilities' own loads or may be sold or exchanged with other customers. Power from Washington Nuclear Power Plant-2 and some other some consumer-owned utility projects is marketed through the Bonneville Power Administration.

**Figure A-7**  
Ownership of generating projects within the Pacific Northwest



Independent project owners include industrial cogenerators that meet their own load or sell to others. A growing segment of independent owners are non-utility generators whose primary business is the production of electric power. Though only five percent of total Northwest generating capacity is currently owned by non-utility organizations, nearly 65 percent of the 2,130 megawatts completed or under construction within the Pacific Northwest region since 1990 are owned by independent developers. Though the output of most non-utility generating projects is currently sold to utilities on long-term contracts, it is expected that an increasing portion of this power will be sold on the wholesale market.

## Inventory of Projects

The following tables provide information regarding specific electric generating plants of the Pacific Northwest. Included are all grid-connected projects of one megawatt capacity, or greater, that were in service or under construction as of January 1996:

*Hydroelectric Projects of the Columbia River Basin:* Table A-1 lists all federal, utility and licensed private hydropower projects in the United States portion of the Columbia River Basin.

*Other Hydroelectric Projects:* Table A-2 lists federal, utility and licensed private hydropower projects in the four-state Northwest region in basins other than that of the Columbia River and its tributaries. Also included are PacifiCorp projects on the California portion of the Klamath drainage that have been historically dedicated to Northwest loads. Several eastern Montana projects are located in the Mid-continent Area Power Pool and are not directly connected to the Western grid.

*Large Thermal Power Plants:* Listed in Table A-3 are non-cogenerating thermal units of 100 megawatts of capacity, or greater. The table includes plants located within the four Northwest states plus plants in adjacent states that are owned or partially owned by utilities operating in the Northwest.

*Cogeneration:* Listed in Table A-4 are cogeneration projects located within the four-state Northwest region. The table includes industrial cogeneration projects whose sizing and operation is closely integrated to the host facility. Some of these projects sell some, or all of their output to a utility and some generate exclusively to meet internal loads. The power sales and operating status of these projects are subject to frequent change. Also included in the table are several large cogeneration projects constructed and operated primarily for electric power production. Though efforts have been made to confirm the list of industrial cogeneration projects, comprehensive inventories of industrial cogeneration projects used exclusively for meeting internal loads are lacking. For this reason, the list of Table A-4 may be incomplete.

*Small Thermal Projects:* Table A-5 lists small non-cogenerating thermal power plants in the four-state region. Several small eastern Montana power plants are located in the Mid-continent Area Power Pool and are not directly connected to the Western grid.

*Key:* Table A-6 contains definitions for the abbreviations used in Tables A-1 through A-5.



**Table A-1**  
Hydroelectric Plants of the U.S. Columbia River Basin

<i>Project</i>	<i>FERC Project ID</i>	<i>Installed Capacity (MW)</i>	<i>Peak Capacity (MW)</i>	<i>Annual Energy (aMW)</i>	<i>Year of Initial Service</i>	<i>Stream</i>	<i>State</i>	<i>Owner</i>	<i>Notes</i>
Albeni Falls	FCRPS	42.6	32.0	34.0	1955	Pend Oreille R.	ID	USCE	
Amy Ranch	8700	0.7		0.4	1986	Deep Cr.	ID	A.J. Amy	
Anderson Ranch	FCRPS	40.0	36.0	19.0	1950	Boise R.	ID	USBR	
American Falls	2736	92.3	0.0	49.0	1978	Snake R.	ID	Idaho Power Co.	
Ashton	2381B	7.4		4.8		Henrys Fk.	ID	PacifiCorp	
Atlanta Power Station	11541	0.2		0.2	1910	Boise R, M Fk	ID	Atlanta Power Co. Inc.	
Barber Dam	4881	3.7		1.7	1989	Boise R.	ID	Ada Co. & Fulcrum Inc.	
Bend Power	None	1.1		0.7	1913	Deschutes R.	OR	PacifiCorp	Form. FERC 2693
Big Cliff	FCRPS	18.0	21.0	12.0	1954	N. Fk. Santiam R.	OR	USCE	
Big Creek	8112	0.0		0.0		McCorkle Cr.	ID	Big Creek Recreation Unlimited	
Big Creek Lodge	10721	0.0		0.0	1964	McCorkle Cr.	ID	Big Creek Lodge & Outfitters	
Big Elk Creek YMCA Camp	6636	0.0		0.0	1987	Big Elk Cr. Trib.	ID	Idaho Falls Family YMCA	
Big Fork	2652	4.2		3.6	1910	Swan R.	MT	PacifiCorp	
Big Sheep Creek	5118	1.6		0.5	1985	Big Sheep Cr.	WA	G.M. Phillips	
Biggs Creek	9044	0.0		0.0	1987	Biggs Cr.	WA	F.E. Pickering	
Billingsley Creek	6208	0.3		0.1	1986	Billingsley Cr.	ID	Trout-Co. Inc.	
Birch Creek	7194	2.7		1.8	1987	Birch Cr.	ID	Birch Power Co. & T.S. Sorenson	
Birch Creek A	6458A	0.0		0.0	1984	Birch Cr.	ID	E. Jensen	
Birch Creek B	6458B	0.1		0.1	1984	Birch Cr.	ID	E. Jensen	
Black Canyon	FCRPS	8.0	9.0	9.0	1986	M. Fk. Willamette R.	OR	USBR	
Black Canyon No. 3	6137	0.1		0.1	1983	N. Gooding Main Cnl.	ID	W. & S. Brown	
Blind Canyon	8375	1.2	0.0	0.7	1992	Blind Canyon Spr.	ID	Blind Canyon Aquaranch, Inc.	
Bliss	1975	75.0	75.0	49.0	1949	Snake R.	ID	Idaho Power Co.	
Boise Diversion	FCRPS	1.5	0.0	0.0	1912	Boise R.	ID	USBR	Idle
Bonneville	FCRPS	1092.9	1074.0	603.0	1938	Columbia R.	WA	USCE	
Boulder Creek	7086	0.4		0.2	1984	Boulder Cr.	MT	Salish & Kootenai Tribes	
Boundary	2144	1039.8	804.0	429.0	1967	Pend Oreille R.	WA	City of Seattle	
Box Canyon	2042	60.0	78.0	51.0	1955	Pend Oreille R.	WA	Pend Oreille Co. PUD	
Box Canyon	6543	0.6		0.5	1983	Box Canyon Spr.	ID	Clear Springs Trout Co.	
Briggs	8083	0.3		0.2	1986	Teton Cnl.	ID	Briggs Hydroelectric	

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Hydroelectric Plants of the U.S. Columbia River Basin

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Briggs Creek	4360	0.8		0.5	1985	Briggs Cr.	ID	R. Kaster	
Brownlee	1971C	585.0	675.0	332.0	1958	Snake R.	ID	Idaho Power Co.	
Brunswick Creek	6564	0.0		0.3	1982	Brunswick Canyon Cr.	OR	R.L. Horning	
Bull Run	477	21.0	22.0	12.0	1912	Sandy R.	OR	Portland General Electric Co.	
Bull Run No. 1	2821A	23.8		6.9	1981	Bull Run R.	OR	City of Portland	
Bull Run No. 2	2821B	11.9		4.6	1982	Bull Run R.	OR	City of Portland	
Burton Creek	7577	0.8		0.4		Burton Cr.	WA	G. Peters	Under construction
Bypass	9070	10.0		3.0	1988	N. Side Main Cnl.	ID	N. Side Canal Co.	
C.J. Strike	2055	82.8	85.0	60.0	1952	Snake R.	ID	Idaho Power Co.	
Cabinet Gorge	2058	231.3	230.0	114.0	1952	Clark Fork R.	ID	Washington Water Power Co.	
Calispell Creek		0.6	1.0	0		Calispell Cr.	WA	Pend Oreille Co. PUD	
Canal Creek	5572	1.1		0.5	1984	Wallowa Valley Imp. Dist. Cnl.	OR	Joseph Hydro Assoc., Ltd.	
Canyon Creek	6414	0.1		0.1	1985	Canyon Cr.	OR	Douglas Water Power Company	
Carmen-Smith	2242B	114.5	26.0	22.0	1963	McKenzie R.	OR	City of Eugene (EWEB)	
Cascade	2848	12.4	5.0	6.0	1926	Payette R. N. Fk.	ID	Idaho Power Co.	
Cedar Draw Creek	8278	2.9		1.3	1985	Cedar Draw	ID	Crystal Springs Hydroelectric, LP	
Cereghino (John Day Creek)	5865	1.1		0.7	1987	John Day Cr.	ID	D. Cereghino	
Chandler	FCRPS	12.0	10.0	8.0	1956	Yakima R. (Off-stream)	WA	USBR	
Chelan	637	48.0	51.0	46.0	1928	Chelan R.	WA	Chelan Co. PUD	
Chief Joseph	FCRPS	2457.3	2538.0	1305.0	1955	Columbia R.	WA	USCE	
City	2842B	8.0		6.0	1982	Snake R.	ID	City of Idaho Falls	
City of Albany	11509	0.5		0.0	1923	S. Santiam R.	OR	City of Albany	
Clear Lake	None	2.5			1937	Snake R. (Off-stream)	ID	Idaho Power Co.	
Cline Falls	None	21.7		10.5	1913	Deschutes R.	OR	PacifiCorp	
Condit	2342	9.6		9.7	1913	White Salmon R.	WA	PacifiCorp	
Cougar	FCRPS	25.0	25.0	16.0	1964	McKenzie R.	OR	USCE	
Cowiche Hydroelectric Project	7337	1.5		0.6	1986	Tieton R.	WA	Yakima-Tieton Irr. Dist.	
Cowlitz Falls	2833	70.0	13.0	27.0	1994	Cowlitz R.	WA	Lewis County PUD	
Deep Creek	5991	0.3		0.1	1983	Deep Cr.	WA	G. Foster	

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Detroit	FCRPS	100.0	96.0	45.0	1953	N. Fk. Santiam R.	OR	USCE	
Dexter	FCRPS	15.0	17.0	9.0	1955	Willamette R.	OR	USCE	
Dietrich Drop	8909	4.8		2.5	1988	Milner-Gooding Cnl.	ID	BP Hydro Assoc., et.al.	
Doug Hull	6676	0.3		0.1	1983	Twin Falls Cnl Lateral 28	ID	D. Hull	
Dry Creek	9134	3.6		2.0	1987	Dry Cr.	ID	D&D Stauffer, Inc.	
Dworshak	FCRPS	400.0	405.0	186.0	1974	Clearwater R.	ID	USCE	
Elk Creek	3503	2.3		0.7	1984	Elk Cr.	ID	Sithe-Energies USA Inc.	
Eltopia Branch Canal 4.6	3842	2.2		1.0	1983	Eltopia Branch Cnl.	WA	Columbia Basin Irr. Dists.	
Fall River	9885	9.1	4.2	5.9	1993	Fall R.	ID	Marysville Hydro Partners	
Falls Creek	6661	4.0		1.7	1984	Falls Cr.	OR	Frontier Technology Inc.	
Faraday	2195B	34.5	14.0	27.0	1907	Clackamas R.	OR	Portland General Electric Co.	
Farmers Irrigation Dist. 2	7532	3.0		1.5	1985	Farmers Ditch	OR	Farmers Irr. Dist.	
Farmers Irrigation Dist. 3	6801	1.8		0.9		Low Line Ditch	OR	Farmers Irr. Dist.	
Faulkner	7592	0.9		0.4	1987	N. Side Main "Y" Cnl.	ID	Faulkner Land & Livestock Co.	
Felt	5089A&B	7.5	2.0	1.0	1986	Teton R.	ID	Fall River REA	
Ferguson Ridge	6621	1.9		0.6	1984	Wallowa Valley Imp. Dist. Cnl.	OR	Joseph Hydro Assoc., Ltd.	
Fisheries Development 1	7885	0.3		0.2	1990	Billingsley Cr.	ID	Fisheries Development Co.	
Flint Creek	1473	1.1		0.0	1901	Georgetown Lk.	MT	Granite Co.	Under construction
Flying W	10309	0.0		0.0	1979	Flying W. Irr. Ditch	ID	R.K. Vaughn	
Ford (Jim Ford Creek)	7986	1.5		0.8	1987	Jim Ford Cr.	ID	Ford Hydro Partnership, Ltd.	
Foster	FCRPS	20.0	22.0	12.0	1968	S. Fk. Santiam R.	OR	USCE	
Gem State	2952	22.3	15.0	14.0	1988	Snake R.	ID	City of Idaho Falls	
Geo-Bon No. 2	7548	1.1		0.5	1986	Little Wood R.	ID	G. Arkoosh	
Gillihan	11192	0.0		0.0		No Name Cr.	ID	C. Gillihan	
Goodrich	None	0.1		0.1		Goodrich Cr.	OR		
Grand Coulee	FCRPS	6494.0	6679.0	2447.0	1941	Columbia R.	WA	USBR	
Grand Coulee (Pumped Storage)	FCRPS	314.4		0.0	1941	Columbia R.	WA	USBR	
Green Peter	FCRPS	80.0	79.0	29.0	1967	M. Fk. Santiam R.	OR	USCE	
<i>Project</i>	<i>FERC</i>	<i>Installed</i>	<i>Peak</i>	<i>Annual</i>	<i>Year of</i>	<i>Stream</i>	<i>State</i>	<i>Owner</i>	<i>Notes</i>

**Table A-1**  
Hydroelectric Plants of the U.S. Columbia River Basin

	<i>Project ID</i>	<i>Capacity (MW)</i>	<i>Capacity (MW)</i>	<i>Energy (aMW)</i>	<i>Initial Service</i>				
Ground Water Pumping Station	7052	4.5		2.5	1985	Bull Run (Offstream)	OR	City of Portland	
Hailey	7016	0.1		0.1	1985	Indian Cr.	ID	City of Hailey	
Hazelton A	10164	8.7		2.8	1990	N. Side Main Cnl.	ID	N. Side Canal Co.	
Hazelton B	10326	7.6	0.0	2.6	1993	N. Side Main Cnl.	ID	N. Side Canal Co.	
Hell's Canyon	1971A	391.5	450.0	270.0	1967	Snake R.	OR	Idaho Power Co.	
Hellroaring Creek	Federal	0.4		0.0	1916	Hellroaring Cr.	MT	USBI	
Hettinger	3041	0.0		0.0	1960	Smith Cr.	ID	Mackay Bar Corp.	
Hills Creek	FCRPS	30.0	30.0	16.0	1962	Willamette R.	OR	USCE	
Hungry Horse	FCRPS	392.3	309.0	66.0	1952	Flathead R.	MT	USBR	
Ice Harbor	FCRPS	603.0	693.0	280.0	1961	Snake R.	WA	USCE	
Idaho Falls Lower	2842C&D	16.0		12.5	1904	Snake R.	ID	City of Idaho Falls	
Idaho Falls Upper	2842A	8.0		6.4	1938	Snake R.	ID	City of Idaho Falls	
Ingram Warm Springs Ranch A	8498B	0.5		0.5	1986	Warm Spring Cr.	ID	W. & V. Ingram	
Ingram Warm Springs Ranch B	8498A	1.1		1.1	1986	Warm Spring Cr.	ID	W. & V. Ingram	
Island Park	2973	4.8		1.4	1993	Henrys Fk.	ID	Fall River REA	
James E. White (Derr Creek)	3922	0.3		0.1	1981	Derr Cr.	ID	J.E. White	
Jim Boyd	7269	1.2		0.5		Umatilla R.	OR	J. & J. Boyd	
Jim Knight	7686	0.3		0.2	1984	S. Gooding Main Cnl.	ID	Mutual Energy Co.	
John Day	FCRPS	2160.0	2484.0	1189.0	1968	Columbia R.	OR/W A	USCE	
John H. Koyle	4052	1.4		1.2	1983	Big Wood R.	ID	J.H. Koyle	
Kasel-Witherspoon	6410A&B	1.4		0.0	1983	Snake R., Trib.	ID	K-W Co.	
Kaster Riverview	4608A&B	0.4		0.2	1983	Box Canyon Spr.	ID	R. Kaster	
Kerr	0005	180.0		127.1	1938	Flathead R.	MT	Montana Power Co.	
Lacomb	6648	1.0		0.6	1986	Lacomb Irr. Cnl.	OR	Lacomb Irr. Dist.	
Lake Creek A	2594A	1.0		0.6	1917	Lake Cr.	MT	Stimson Lumber Co.	
Lake Creek B	2594B	3.5		2.1	1917	Lake Cr.	MT	Stimson Lumber Co.	
Lake Oswego	5249	0.5		0.4	1910	Oswego Cr.	OR	Lake Oswego Corp.	
Lateral No. 10	6250	2.9		1.2	1985	Lateral No. 10 Cnl.	ID	Cogeneration, Inc.	
Leaburg Dam	2496	15.0	4.0	10.8	1930	McKenzie R.	OR	City of Eugene (EWEB)	

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Leishman Irrigation System	7684	0.0		0.0	1987	Irr. Collection System	WA	J. & I. Leishman	
Lemoynes	4563	0.0		0.1	1985	Conyers Ditch	ID	J.R. Lemoynes	
Libby	FCRPS	525.0	545.0	220.0	1975	Kootenai R.	MT	USCE	
Little Falls	None	32.0	35.0	25.0	1910	Spokane R.	WA	Washington Water Power Co.	
Little Gold	8660	0.5		0.2	1983	Little Gold Cr.	MT	Boulder Hydro	
Little Goose	FCRPS	810.0	932.0	299.0	1970	Snake R.	WA	USCE	
Little Mac	6443	1.6		1.1	1984	Cedar Draw	ID	T. & R. McCauley	
Little Wood R Ranch	7530	1.9		0.5	1986	Little Wood R.	ID	Little Wood R. Irr. Dist.	
Little Wood Reservoir	7427	1.0		0.4	1988	Little Wood R.	ID	W. Arkoosh	
Long Lake	2545A	70.0	67.0	55.0	1914	Spokane R.	WA	Washington Water Power Co.	
Lookout Point	FCRPS	120.0	67.0	35.0	1954	Willamette R.	OR	USCE	
Low Line Canal Drop	3216	8.0		3.6	1984	Low Line Cnl.	ID	Twin Falls Canal Co.	
Lower Granite	FCRPS	810.0	932.0	294.0	1975	Snake R.	WA	USCE	
Lower Low Line 2	8961	2.8		0.3	1988	Low Line Cnl.	ID	Twin Falls Canal Co.	
Lower Malad	2726A	13.5		11.4	1911	Big Wood R.	ID	Idaho Power Co.	
Lower Monumental	FCRPS	810.0	932.0	310.0	1969	Snake R.	WA	USCE	
Lower Salmon Falls	2061	60.0	68.0	34.0	1910	Snake R.	ID	Idaho Power Co.	
LQ-LS Drains	5767	1.8		1.3	1984	LS Drain & LQ Drain	ID	Pigeon Cove Power Co.	
Lucky Peak	2832	101.3		32.2	1988	Boise R.	ID	Boise Proj. Board of Control	
Macks Creek	6631	0.0		0.0	1984	Macks Cr.	ID	F.E. & C.A. Aedette	
Main Canal Headworks	2849	26.0		9.9	1986	Main Cnl.	WA	S. Columbia Basin Irr. Dist.	
Marion Investment	None	0.9				N. Santiam R.	OR		
Marsh Valley	10468	1.7		0.9		Portneuf Marsh Valley Cnl.	ID	Marsh Valley Hydroelectric	
Mayfield Dam	2016A	162.0	174.0	77.0	1963	Cowlitz R.	WA	City of Tacoma	
McNary	FCRPS	980.0	1127.0	777.0	1953	Columbia R.	OR/W A	USCE	
McNary Dam Fish Attraction	10204	8.0		7.0	1997	Columbia R.	WA	Northern Wasco Co. PUD	Under construction
Merwin (Ariel dam)	935	136.0	114.0	57.0	1931	Lewis R.	WA	PacificCorp	
Meyers Falls	None	1.0	1.0	1.0	1915	Colville R.	WA	Washington Water Power Co.	
Middle Fork Irrigation Dist. 1	4458A	0.6		0.5	1987	W. Evans Cr.	OR	Middle Fork Irr. Dist.	
Middle Fork Irrigation Dist. 2	4458B	0.6		0.4	1987	Irr. Conduit	OR	Middle Fork Irr. Dist.	

**Table A-1**  
Hydroelectric Plants of the U.S. Columbia River Basin

<i>Project</i>	<i>FERC Project ID</i>	<i>Installed Capacity (MW)</i>	<i>Peak Capacity (MW)</i>	<i>Annual Energy (aMW)</i>	<i>Year of Initial Service</i>	<i>Stream</i>	<i>State</i>	<i>Owner</i>	<i>Notes</i>
Middle Fork Irrigation Dist. 3	4458C	2.1		1.7	1987	Clear Branch	OR	Middle Fork Irr. Dist.	
Mill Creek	5390	0.6		0.3	1984	Mill Cr.	OR	City of Cove	
Mill Creek	4949	0.6		0.3	1983	Mill Cr.	WA	L.S. Walker	
Milltown	2543	4.0		3.5	1906	Clark Fork R.	MT	Montana Power Co.	
Milner A	2899B	58.6		20.6	1993	Twin Falls Main Cnl.	ID	Milner Dam Inc.	
Milner B	2899B	0.8		0.9	1993	N. Side Main Cnl.	ID	Milner Dam Inc.	
Minidoka	FCRPS	13.6	13.0	12.0	1909	Snake R.	ID	USBR	
Mitchell Butte	5357	1.9		0.6	1989	Mitchell Butte Lateral	OR	Owyhee Project Irr. Dist.	
Monroe Street	2545C	14.8	7.0	6	1890	Spokane R.	WA	Washington Water Power Co.	
Mossyrock	2016B	462.0	203.0	108.0	1968	Cowlitz R.	WA	City of Tacoma	
Moyie Falls 2 (Lower)	1991A	4.0		0.2	1941	Moyie R.	ID	City of Bonners Ferry	
Moyie Falls 1 (Upper)	1991B	2.0		0.8	1921	Moyie R.	ID	City of Bonners Ferry	
Moyie River	1991C	1.5		0.5	1982	Moyie R.	ID	City of Bonners Ferry	
Mt. Tabor	6957	0.2		0.1	1985	Mt. Tabor Res. No. 5	OR	City of Portland	
Mud Creek A	4769A	0.4		0.4	1982	Mud Cr.	ID	S. & S. Limited Partnership	
Mud Creek B	4769B	0.2		0.2	1982	Present Ditch	ID	S. & S. Limited Partnership	
N-32 (Northside Canal)	6778	0.6		0.3	1985	N. 32 Lateral Cnl.	ID	Marcos Ranches	
Naches	2672A	6.4		3.7	1909	Wapato Cnl.	WA	PacifiCorp	
Naches Drop	2672B	1.4		1.0	1914	Naches R.	WA	PacifiCorp	
Nicholson	7865	0.5		0.3	1986	Uncle Ike Cr.	ID	O. Nicholson	
Nine Mile	2545B	26.0	18.0	14	1908	Spokane R.	WA	Washington Water Power Co.	
North Fork	2195C	38.4	52.0	31.0	1958	Clackamas R.	OR	Portland General Electric Co.	
Noxon Rapids	2075	466.2	432.0	184.0	1960	Clark Fork R.	MT	Washington Water Power Co.	
O.J. Power Company	7719	0.2		0.1	1986	Mill Cr.	ID	O.J. Power Co.	
Oak Grove	135A&B	51.0	49.0	32.0	1924	Clackamas R., Oak Grove Fk.	OR	Portland General Electric Co.	
Odell Creek	6057	0.2		0.1	1984	Odell Cr.	OR	F.L. Plog	
Opal Springs	5891	4.3		2.7	1920	Crooked R.	OR	Deschutes Valley Wtr. Dist.	
Orchard Avenue	7338	1.4		0.6	1986	Tieton R.	WA	Yakima-Tieton Irr. Dist.	
Oregon City	2233C	1.5		1.1		Willamette R.	OR	Smurfit Newsprint Corp.	
Owyhee Dam	4354	4.3		1.8	1985	Owyhee R.	OR	Owyhee Project Irr. Dist.	
Owyhee Tunnel No. 1	4359	8.0	0.0	2.3	1993	Owyhee Lk.	OR	Owyhee Project Irr. Dist.	

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Oxbow	1971B	190.0	202.0	135.0	1961	Snake R.	OR	Idaho Power Co.	
Packwood Lake	2244	26.1	30.0	8.0	1964	Lake Cr.	WA	WA Public Power Supply System	
Palisades	FCRPS	136.5	122.0	76.0	1957	Snake R.	ID	USBR	
Pelton	2030A	97.2	124.0	48.0	1957	Deschutes R.	OR	Portland General Electric Co.	
Pelton Reregulation Dam	2030B	15.0		8.0		Deschutes R.	OR	Warm Springs Tribal Council	
Philipsburg A	6639A	0.1		0.1	1981	Fred Burr Cr.(Off-stream)	MT	Edelman Enterprises, Inc.	
Philipsburg B	6639B	0.1		0.1	1981	Fred Burr Cr.	MT	Edelman Enterprises, Inc.	
Ponds Lodge	1413	0.3		0.1	1936	Buffalo R.	ID	Buffalo Hydro, Inc.	
Portneuf River (CEM Hydro)	7447	0.9		0.5	1993	Portneuf R.	ID	Commercial Energy Management	
Post Falls	2545E	14.8	14.0	10	1906	Spokane R.	ID	Washington Water Power Co.	
Potholes East Canal 66.0	3843	2.4		1.4	1985	Potholes E. Cnl.	WA	Columbia Basin Irr. Dists.	
Potholes East Canal Headworks	2840	6.5		2.8	1990	Potholes E. Cnl.	WA	Columbia Basin Irr. Dists.	
Powerdale	2659	6.0		5.4	1923	Hood R.	OR	PacifiCorp	
Priest Rapids	2114A	834.9	904.0	543.0	1959	Columbia R.	WA	Grant Co. PUD	
Quincy Chute	2937	7.8		3.3	1984	West Cnl.	WA	Columbia Basin Irr. Dists.	
Reynolds Irrigation District	6229	0.4		1.5	1985	Reynolds ID Main Cnl.	ID	Reynolds Irr. Dist.	
River Mill	2195A	19.1	23.0	15.0	1911	Clackamas R.	OR	Portland General Electric Co.	
Rock Creek	1986	0.8		0.6	1965	Rock Cr.	OR	Oregon Trail REA	
Rock Creek #1	6450	2.5		1.4	1983	Rock Cr.	ID	Cogeneration, Inc.	
Rock Creek #2	6015	1.9		1.2	1988	Rock Cr.	ID	Bonneville Pacific Hydro	
Rock Island	943A&B	622.5	530.0	315.0	1933	Columbia R.	WA	Chelan Co. PUD	
Rocky Reach	2145	1213.2	1241.0	705.0	1961	Columbia R.	WA	Chelan Co. PUD	
Round Butte	2030C	247.1	230.0	103.0	1964	Deschutes R.	OR	Portland General Electric Co.	
Roza	FCRPS	12.9	10.0	11.0	1958	Yakima R.	WA	USBR	
Russell D. Smith	2926	6.1		2.6	1982	Potholes E. Cnl.	WA	S. Columbia Basin Irr. Dist.	
Sagebrush	8046	0.3		0.2	1985	S. Gooding Main Cnl.	ID	Mutual Energy Co.	
Schaffner	8438	0.5		0.2	1986	Sandy Cr., W. Fk.	ID	DBA Schaffner Power Co.	
Shingle Creek	4025	0.2		0.2	1984	Shingle Cr., S. Fk.	ID	W.D. Deveny	
Shoshone	9967A&B	0.3	0.0	0.2	1982	Little Wood R.	ID	Shorack Hydro, Inc.	

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Shoshone Falls	2778	12.5	13.0	11.0	1907	Snake R.	ID	Idaho Power Co.	
Slaughterhouse Gulch	6375	0.1		0.1	1983	Slaughterhouse Gulch	ID	Heed Co.	
Smith Creek	8436	37.8	2.0	9.8	1990	Smith Cr.	ID	Smith Falls Hydropower	
Snake River Pottery	5651	0.1		0.1	1984	Snake R. Trib.	ID	A. Bowler	
Snedigar Ranch	5731	0.2		0.2		Coulee Cr.	ID	Snedigar Ranch	
Spring Creek	7214	0.0		0.0	1991	Spring Cr.	WA	L. Smith	
St. Anthony	2381A	0.5		0.5	1915	Henrys Fk.	ID	PacifiCorp	
Stevenson No. 1	8865	0.1		0.1	1979	Snake R. Trib.	ID	L.E. Stevenson	
Stevenson No. 2	8866	0.1		0.1	1980	Snake R. Trib.	ID	L.E. Stevenson	
Stone Creek	5264	12.0	3.0	8.0	1993	Clackamas R., Oak Grove Fk.	OR	Puget Sound Power & Light Co.	
Strawberry	2032	1.5		2	1951	Strawberry Cr.	WY	Lower Valley Power & Light	
Summer Falls	3295	92.0		37.1	1984	Main Cnl.	WA	Columbia Basin Irr. Dists.	
Sunshine	9907	0.1		0.1	1987	Lake Cr.	ID	A.W. Brown, Inc.	
Swan Falls	503	25.0	29.0	28.0	1910	Snake R.	ID	Idaho Power Co.	
Swift 1	2111	204.0	140.0	68.0	1958	Lewis R.	WA	PacifiCorp	
Swift 2	2213	70.0	77.0	23.0	1958	Lewis R.	WA	PacifiCorp	
Swift Lower	1651A	0.0		0.0		Swift Cr.	WY	Swift Creek Power Co., Inc.	
Swift Upper	1651B	0.2				Swift Cr.	WY	Swift Creek Power Co., Inc.	
T.W. Sullivan	2233B	15.4	16.0	14.0	1985	Willamette R.	OR	Portland General Electric Co.	
Telford	5637	0.2		0.1	1984	Bell Mountian Cr.	ID	Pancheri Inc.	
The Dalles	FCRPS	1807.0	1894.0	839.0	1957	Columbia R.	OR/W A	USCE	
The Dalles North Fishway	7076	4.9	0.0	3.0	1991	Columbia R.	WA	Northern Wasco Co. PUD	
Thompson Falls	1869	50.0	43.0	21.0	1915	Clark Fork R.	MT	Montana Power Co.	
Thompson's Mills	9169	0.1		0.1	1986	Calapooia R.	OR	Boston Power Co. Inc.	
Thousand Springs	None	7.8			1912	Snake R. (Off-stream)	ID	Idaho Power Co.	
Trail Bridge	2242A	10.0	3.0	5.0	1963	McKenzie R.	OR	City of Eugene (EWEB)	
Trinity	719	0.2		0.2	1923	Phelps Cr.	WA	Trinity Conservancy, Inc.	
Tuttle Ranch	4055	1.1		0.5	1983	Big Wood R.	ID	V.F. Ravenscroft	
Twin Falls	018A&B	50.4	20.0	29.0	1935	Snake R.	ID	Idaho Power Co.	
Twin Reservoirs	10376	2.1		1.6	1988	Mill Cr.	WA	City of Walla Walla	



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Upper Falls	2545D	10.0	9.0	8	1922	Spokane R.	WA	Washington Water Power Co.	
Upper Little Sheep Creek	5573	4.3		1.7	1984	Wallowa Valley Imp. Dist. Cnl.	OR	Joseph Hydro Assoc., Ltd.	
Upper Malad	2726B	22.2		18.8	1948	Big Wood R.	ID	Idaho Power Co.	
Upper Pine Creek	8727	0.0		0.0	1985	Pine Cr.	MT	G.W. White	
Upper Salmon 1 & 2 (A)	2777A	18.0	20.0	18.0	1937	Snake R.	ID	Idaho Power Co.	
Upper Salmon 3 & 4 (B)	2777B	16.5	18.0	16.0	1947	Snake R.	ID	Idaho Power Co.	
Upriver Dam	3074	14.6		8.9	1983	Spokane R.	WA	City of Spokane	
Wallowa Falls	308	1.1		0.8	1921	Wallowa Cr., E. Fk.	OR	PacifiCorp	
Walterville	2510	8.0	3.0	7.0	1911	McKenzie R.	OR	City of Eugene (EWEB)	
Wanapum	2114B	893.1	985.0	578.0	1963	Columbia R.	WA	Grant Co. PUD	
Wapato Drop 2	Federal	2.0			1942	Yakima R. (Off-stream)	WA	USBI	
Wapato Drop 3	Federal	1.4			1932	Yakima R. (Off-stream)	WA	USBI	
Warren	2794	0.0		0.0	1953	Slaughter Cr.	ID	Silver King, Inc.	
Water Street	6943	0.2		0.1	1985	Stayton Power Cnl.	OR	Santiam Water Control Dist.	
Wells	2149	774.3	840.0	519.0	1967	Columbia R.	WA	Douglas Co. PUD	
West Linn	2233A	3.6		2.3		Willamette R.	OR	Simpson Paper Co.	
White Ranch	4115	0.3		0.2	1986	Mud Cr.	ID	T.G. White	
White Water Ranch A	6271A	0.0		0.1	1985	Stoddard Cr.	ID	White Water Ranch	
White Water Ranch C	6271C	0.1		0.1	1985	Stoddard Cr.	ID	White Water Ranch	
Whitefish	6941	0.2		0.1	1985	Haskill Cr., Trib.	MT	Hydro Management Inc.	
Wilson Lake	10454	8.4	0.0	2.0	1993	N. Side Main Cnl.	ID	Hazelton/Wilson Joint Venture	
Wolf Creek	7058	0.1		0.1	1987	Bull Run R.	OR	Wolf Creek Hwy. Water Dist.	
Y-8 (Northside Canal)	6630	0.1		0.1	1983	N. Side Main "Y" Cnl.	ID	N. Side Canal Co.	
Yale	2071	108.0	121.0	64.0	1953	Lewis R.	WA	PacifiCorp	
Zena Creek Ranch	10939	0.0		0.0	1952	Zena Cr.	ID	J.B. Adkins	

**Table A-2**  
Other Hydroelectric Projects

<i>Project</i>	<i>FERC Project ID</i>	<i>Installed Capacity (MW)</i>	<i>Peak Capacity (MW)</i>	<i>Annual Energy (aMW)</i>	<i>Year of Initial Service</i>	<i>Stream</i>	<i>State</i>	<i>Owner</i>	<i>Basin</i>
Alder	1862B	50.0	30.0	27.0	1945	Nisqually R.	WA	City of Tacoma	Puget or Coastal
Barney Creek	7754	0.1		0.0	1986	Barney Cr.	MT	T.K. & J.L. Budde	Missouri
Black Creek	6221	3.7	2.0	2.0	1994	Black Cr.	WA	Black Creek Hydro, Inc.	Puget or Coastal
Black Eagle	2188E	16.8		15.7		Missouri R.	MT	Montana Power Co.	Missouri
Broadwater	2853	10.0		6.4	1989	Missouri R.	MT	State of Montana	Missouri
Burnham Creek	9654	0.0		0.0		Burnham Cr.	WA	B. Wirkkala-See	Puget or Coastal
Cascade Creek	6629	0.1		0.0	1983	Cascade Cr.	MT	M Ranch	Missouri
Cedar Falls (Masonry Dam)	10647	30.0	30.0	11.0	1905	Cedar R.	WA	City of Seattle	Puget or Coastal
Clearwater 1	1927F	15.0		7.0	1953	Clearwater R.	OR	PacifiCorp	Puget or Coastal
Clearwater 2	1927E	26.0		7.5	1953	Clearwater R.	OR	PacifiCorp	Puget or Coastal
Cochrane	2188C	48.0		33.8	1957	Missouri R.	MT	Montana Power Co.	Missouri
COPCO 1		20.0				Klamath R.	CA	PacifiCorp	Klamath
COPCO 2		27.0				Klamath R.	CA	PacifiCorp	Klamath
Cove	4401A	0.0		4.2	1917	Bear R.	ID	PacifiCorp	Bear
Cushman 1	460B	43.2	24.0	13.0	1926	Skokomish R. N. Fk.	WA	City of Tacoma	Puget or Coastal
Cushman 2	460A	81.0	88.0	27.0	1930	Skokomish R. N. Fk.	WA	City of Tacoma	Puget or Coastal
Denny Creek	7350	0.1		0.0	1985	Denny Cr.	OR	C.A. & D.E. Curtiss	Klamath
Diablo	553B	122.5	158.0	98.0	1936	Skagit R.	WA	City of Seattle	Puget or Coastal
Diamond Creek	5978	0.0		0.0	1988	Diamond Cr.	WA	G.A. Cromwell	Puget or Coastal
Eagle Point	None	2.8		2.3	1957	Little Butte Cr.	OR	PacifiCorp	Puget or Coastal
East Side	2082H	3.2		2.3	1924	Klamath R.	OR	PacifiCorp	Klamath
Electron	2495	25.5		19.0	1904	Puyallup R.	WA	Puget Sound Power & Light Co.	Puget or Coastal
Elwha Dam	2683	12.0		7.8	1913	Elwha R.	WA	James River II, Inc.	Puget or Coastal
Fall Creek		2.2				Klamath R.	CA	PacifiCorp	Klamath
Falls Creek	5497	0.0		0.0	1988	Falls Cr.	WA	A.H. Haley	Puget or Coastal
Fish Creek	1927C	11.0		7.2	1952	Fish Cr.	OR	PacifiCorp	Puget or Coastal
Fort Peck	Federal	185.3				Missouri R.	MT	USCE	Missouri; Mid-continent Power Pool
Galesville	7161	1.7		0.7	1987	Cow Cr.	OR	Douglas Co.	Puget or Coastal
Georgetown	6445	0.5		0.2	1985	Georgetown Cr.	ID	Georgetown Irr. Co.	Bear

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Glines Canyon	588	12.1		13.4		Elwha R.	WA	James River II, Inc.	Puget or Coastal
Gorge	553A	150.0	174.0	108.0	1924	Skagit R.	WA	City of Seattle	Puget or Coastal
Grace	2401A	0.0		23.2	1923	Bear R.	ID	PacifiCorp	Bear
Green Springs	Federal	16.0	18.0	7.0	1960	Keene Cr.	OR	USBR	Klamath
Hauser Lake	2188G	17.0		14.1	N/A	Missouri R.	MT	Montana Power Co.	Missouri
Henry M. Jackson (Culmback)	2157	111.8		49.8	1984	Sultan R.	WA	Snohomish Co. PUD	Puget or Coastal
Holter	2188F	38.4		33.5	1918	Missouri R.	MT	Montana Power Co.	Missouri
Hood Street	10256	0.9	1.0	0.6	1990	McMillan Reservoir	WA	City of Tacoma	Puget or Coastal
Iron Gate		18.0				Klamath R.	CA	PacifiCorp	Klamath
John C. Boyle	2082E	80.0		42.1	1958	Klamath R.	OR	PacifiCorp	Klamath
Koma Kulshan	3239	12.0		6.4	1990	Rocky Cr.	WA	Koma Kulshan Assoc.	Puget or Coastal
LaGrande	1862A	64.0	65.0	39.0	1912	Nisqually R.	WA	City of Tacoma	Puget or Coastal
Lake Creek No 1	6595	0.1		0.0	1984	Lake Cr.	OR	Mountain Energy Co.	Puget or Coastal
Last Chance Canal	4580	1.7		0.9	1982	Bear R.	ID	Last Chance Canal Co.	Bear
Lemolo 1	1927G	29.0		18.9	1955	N. Umpqua R.	OR	PacifiCorp	Puget or Coastal
Lemolo 2	1927H	33.0		21.1	1956	N. Umpqua R.	OR	PacifiCorp	Puget or Coastal
Lilliwaup Falls	3482	1.6		1.2	1983	Lilliwaup Cr.	WA	S.A. Craft	Puget or Coastal
Little Butte Ranch	6579	0.0		0.0		Little Butte Cr., N. Fk.	OR	M. Coe	Puget or Coastal
Lost Creek	FRCPS	49.0	18.0	36.0	1977	Rogue R.	OR	USCE	Puget or Coastal
Lower Baker	2150A	64.0	50.0	46.0	1925	Baker R.	WA	Puget Sound Power & Light Co.	Puget or Coastal
Madison	2188H	9.0		7.1		Madison R.	MT	Montana Power Co.	Missouri
Mink Creek	8646	3.1		1.3	1988	Mink Cr.	ID	R. Fackrell	Bear
Mirror Lake	7747	1.0		0.7	1985	Nooksack R., M. Fk.	WA	R. & R. Shipp	Puget or Coastal
Moroney	2188A	45.0		33.8		Missouri R.	MT	Montana Power Co.	Missouri
Morse Creek	6461	0.5	1.0	0.3	1988	Morse Cr.	WA	City of Port Angeles	Puget or Coastal
Mystic Lake	2301	10.0		6.0	1925	W. Rosebud Cr.	MT	Montana Power Co.	Missouri
Newhalem Creek	2705	1.8		1.4	1921	Newhalem Cr.	WA	City of Seattle	Puget or Coastal
Nichols Gap	8704	0.9		0.3	1986	Nichols Branch, Trib.	OR	G.B. & P.P. Ryan	Puget or Coastal
Nooksack	None	1.5			1906	N. Fk. Nooksack R.	WA	Puget Sound Power & Light Co.	Puget or Coastal

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Other Hydroelectric Projects

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North Fork Sprague River	6552	1.2		0.7	1989	Sprague R., N. Fk.	OR	HDI Assoc. & V. & F.D. Ehlers	Klamath
North Willow Creek	7804	0.4		0.4	1988	N. Willow Cr.	MT	G. & G. Ohs	Missouri
Oneida Narrows	472	30.0		6.3	1915	Bear R.	ID	PacifiCorp	Bear
Paris	703	0.7		0.3	1910	Weilenmann Cnl.	ID	PacifiCorp	Bear
Pine Creek	8546	0.4		0.2	1975	Pine Cr.	MT	H. & M. Carter	Missouri
Port Townsend Mill	5411	0.4		0.3	1982	Big Quilcene R.	WA	Crown Zellerbach Corp.	Puget or Coastal
Preston	5892	0.4		0.3	1987	Berquist Spr.	ID	City of Preston	Puget or Coastal
Prospect 1	2630C	3.8		3.9	1912	Rogue R. (Off-stream)	OR	PacifiCorp	Puget or Coastal
Prospect 2	2630A	32.0		27.5	1920	Rogue R.	OR	PacifiCorp	Puget or Coastal
Prospect 3	2337	7.2		5.2	1932	Rogue R., S. Fk.	OR	PacifiCorp	Puget or Coastal
Prospect 4	2630B	1.0		0.9	1944	Rogue R. (Off-stream)	OR	PacifiCorp	Puget or Coastal
Rainbow	2188D	36.5		27.1	1910	Missouri R.	MT	Montana Power Co.	Missouri
Reeder Gulch	1107	0.7	1.0	0.0	1985	Ashland Cr.	OR	City of Ashland	Puget or Coastal
Rocky Brook	3783	1.2		0.8	1985	Rocky Brook	WA	Rocky Brook Electric, Inc.	Puget or Coastal
Ross	553C	360.0	287.0	97.0	1952	Skagit R.	WA	City of Seattle	Puget or Coastal
Ryan	2188B	48.0		50.7	1916	Missouri R.	MT	Montana Power Co.	Missouri
Savage Rapids Diversion	Federal	1.3		0.2	1955	Rogue R.	OR	USBR	Puget or Coastal
Skookumchuck	4441	1.0		0.7	1990	Skookumchuck R.	WA	PacifiCorp	Puget or Coastal
Skyview Ranch Power	9179	0.0		0.0	1983	Euchre Cr.	OR	W.J. Krieger	Puget or Coastal
Slide Creek	1927B	18.0		11.2	1951	N. Umpqua R.	OR	PacifiCorp	Puget or Coastal
Smith Creek	5982	0.1		0.1		Smith Cr.	WA	R.B. Shipp	Puget or Coastal
Snoqualmie Falls 1	2493A	11.6		8.6	1898	Snoqualmie R.	WA	Puget Sound Power & Light Co.	Puget or Coastal
Snoqualmie Falls 2	2493B	30.1		22.4	1910	Snoqualmie R.	WA	Puget Sound Power & Light Co.	Puget or Coastal
Soda Creek	7959	0.4	1.0	1.0	1988	Soda Creek	ID	City of Soda Springs	Bear
Soda Creek 4	11503	0.5		0.0	1988	Soda Creek	ID	City of Soda Springs	Bear
Soda Point Reservoir	020	14.0		3.0	1925	Bear R.	ID	PacifiCorp	Bear
Soda Springs	1927A	11.0		8.2	1952	N. Umpqua R.	OR	PacifiCorp	Puget or Coastal

**Table A-2**  
Other Hydroelectric Projects

<i>Project</i>	<i>FERC Project ID</i>	<i>Installed Capacity (MW)</i>	<i>Peak Capacity (MW)</i>	<i>Annual Energy (aMW)</i>	<i>Year of Initial Service</i>	<i>Stream</i>	<i>State</i>	<i>Owner</i>	<i>Basin</i>
South Dry Creek	8831	1.8		0.8	1985	Rock Cr., Clear Cr. Ditch	MT	Hydrodynamics Inc.	Missouri
South Fork Tolt	2959	15.0	17.0	8.0	1995	S. Fk. Tolt R.	WA	City of Seattle	Puget or Coastal
South Willow Creek A	7856A	0.0		0.0	1986	Potosi Cr.	MT	Potosi Generating Station	Missouri
South Willow Creek B	7856B	0.3		0.2	1980	South Willow Cr.	MT	Potosi Generating Station	Missouri
Spencer Lake Hydro	6625	0.0		0.0	1983	Unnamed Outlet to Spencer Lk.	WA	J.H. Leslie	Puget or Coastal
Strawberry Creek	8359	0.3		0.1	1987	Strawberry Cr.	MT	C. & I. Allen	Missouri
Sygitowicz Creek	5069	0.5		0.1	1986	Sygitowicz Cr.	WA	D.S. Marr	Puget or Coastal
Toketee	1927D	42.6		9.5	1950	N. Umpqua R.	OR	PacifiCorp	Puget or Coastal
Twin Falls	4885	20.0		7.9	1990	Snoqualamie R., S. Fk.	WA	Twin Falls Hydro Associates	Puget or Coastal
Upper Baker	2150B	94.4	84.0	41.0	1959	Baker R.	WA	Puget Sound Power & Light Co.	Puget or Coastal
Weeks Falls	7563	5.3		1.9	1985	Snoqualamie R., S. Fk.	WA	South Fork II Associates	Puget or Coastal
West Side	2082G	0.6		0.7	1908	Klamath R.	OR	PacifiCorp	Klamath
White River	2494A&B	70.0	64.0	48.0	1912	Lake Tapps Flume	WA	Puget Sound Power & Light Co.	Puget or Coastal
Wisconsin-Noble	9482	0.5		0.2	1989	Noble Fk.	MT	Wisconsin Creek Ltd.	Missouri
Woods Creek	3602	0.7		0.3	1982	Woods Cr., E. Fk.	WA	Woods Creek, Inc.	Puget or Coastal
Wynoochee	6842	10.8	11.0	3.9	1993	Wynooche R.	WA	Cities of Tacoma and Aberdeen	Puget or Coastal
Yellowtail	Federal	250.0				Bighorn R.	MT	USBR	Missouri; Mid-continent Power Pool
Yelm	10703	12.0	10.0	8.6	1930	Nisqually R.	WA	City of Centralia	Puget or Coastal

**Table A-3**  
Large Thermal Plants

<i>Project</i>	<i>Type</i>	<i>Fuel</i>	<i>Installed Capacity (MW)</i>	<i>Peak Capacity (MW)</i>	<i>Annual Energy (aMW)</i>	<i>Year of Initial Service</i>	<i>Site</i>	<i>State</i>	<i>Owner</i>	<i>Comments</i>
Boardman	Steam	Coal	560.5	507.0	384.0	1980	Boardman	OR	PGE (65%); IPC(10%); PNGC(10%); GECC(15%)	
Beaver	Combined-cycle	Natural gas	586.2	534.0	389.0	1977	Clatskanie	OR	PGE	
Centralia 1	Steam	Coal	671.5	670.0	596.0	1971	Centralia	WA	PAC (47.5%); WWPC (15%); SCL (8%); SHPD (8%); TCL (8%); PSPL (7%); GHPD (4%); PGE (2.5%)	
Centralia 2	Steam	Coal	671.5	670.0	596.0	1972	Centralia	WA	PAC (47.5%); WWPC (15%); SCL (8%); SHPD (8%); TCL (8%); PSPL (7%); GHPD (4%); PGE (2.5%)	
Colstrip 1	Steam	Coal	333.0	318.0	250.0	1975	Colstrip	MT	MPC (50%); PSPL (50%)	
Colstrip 2	Steam	Coal	333.0	318.0	250.0	1976	Colstrip	MT	MPC (50%); PSPL (50%)	
Colstrip 3	Steam	Coal	718.0	726.0	617.0	1984	Colstrip	MT	MPC (30%); PSPL (25%); PGE (20%); WWPC (15%); PAC (10%)	
Colstrip 4	Steam	Coal	718.0	726.0	617.0	1986	Colstrip	MT	MPC (30%); PSPL (25%); PGE (20%); WWPC (15%); PAC (10%)	
J.E. Corrette	Steam	Coal	163.0	160.0		1968	Billings	MT	MPC	
Jim Bridger 1	Steam	Coal	520.1	520.0	454.0	1974	Rock Springs	WY	PAC (66.6%); IPC (33.3%)	
Jim Bridger 2	Steam	Coal	520.1	520.0	454.0	1975	Rock Springs	WY	PAC (66.6%); IPC (33.3%)	
Jim Bridger 3	Steam	Coal	520.1	520.0	454.0	1976	Rock Springs	WY	PAC (66.6%); IPC (33.3%)	
Jim Bridger 4	Steam	Coal	520.1	520.0	454.0	1979	Rock Springs	WY	PAC (66.6%); IPC (33.3%)	
Valmy 1	Steam	Coal	254.0	258	195.0	1981	Valmy	NV	SPP(50%); IPC (50%)	
Valmy 2	Steam	Coal	267.0	274	195.0	1985	Valmy	NV	SPP(50%); IPC (50%)	
WNP-2	Boiling Water Reactor	Uranium	1216.0	1170.0	878	1984	Hanford	WA	WPPSS	

**Table A-4**  
Cogeneration Plants

<i>Project</i>	<i>Type</i>	<i>Fuel</i>	<i>Installed Capacity (MW)</i>	<i>Initial Service</i>	<i>Site</i>	<i>State</i>	<i>Owner of Power Plant</i>	<i>Thermal Load</i>	<i>Comments</i>
Amalgamated Sugar	Steam	Coal	8.7		Nampa	ID	The Amalgamated Sugar Co.	The Amalgamated Sugar Co.	
Amalgamated Sugar	Steam	Coal	13.9		Nyassa	OR	The Amalgamated Sugar Co.	The Amalgamated Sugar Co.	
Amalgamated Sugar	Steam	Coal	5.5		Paul	ID	The Amalgamated Sugar Co.	The Amalgamated Sugar Co.	
Amalgamated Sugar	Steam	Coal	4.0		Twin Falls	ID	The Amalgamated Sugar Co.	The Amalgamated Sugar Co.	
BGI (Yellowstone Energy)	Steam	Petroleum coke	64.0	1995	Billings	MT	Billings Generation, Inc.	Exxon	Power to Montana Power Co.
Biomass One	Steam	Wood	25.0	1986	White City	OR	Energy Reliance Group		Power to Pacificorp
Blue Mountain Forest Products	Steam	Wood	3.5	1986	Long Creek	OR	Blue Mtn Forest Products	Blue Mountain Forest Products	Idle
Boise Cascade (Emmett)	Steam	Wood	14.0	1985	Emmett	ID	Boise Cascade	Boise Cascade	Power to Idaho Power Co.
Boise Cascade (LaGrand)	Steam	Wood	4.6		La Grande	OR	Boise Cascade	Boise Cascade	
Boise Cascade (Medford)	Steam	Wood	8.5	1961	Medford	OR	Boise Cascade	Boise Cascade	Power to Pacificorp
Bremerton Wastewater	Gasifier	Waste gas	0.14			WA		Bremerton WWTP	
Champion International (Libby)	Steam	Wood	17.0	1960	Libby	MT	Champion International Corp.	Champion International Corp.	Power to Pacificorp
Champion International (Milltown/Bonner)	Steam	Wood	2.1		Milltown	MT	Champion International Corp.	Champion International Corp.	
Cogen I	Steam	Wood	7.5	1986	Prairie City	OR	D. R. Johnson Lumber Co.	D. R. Johnson Lumber Co.	Idle
Cogen II	Steam	Wood	7.5	1987	Riddle	OR	D. R. Johnson Lumber Co.	D. R. Johnson Lumber Co.	Power to Pacificorp
Coyote Springs 1	Combined-cycle	Natural gas	237.0	1995	Boardman	OR	Portland General Electric Co.	None at present	
Crater Lake Lumber Co.	Steam	Wood	2.5		Chiloquin	OR	Crater Lake Lumber Co.	Crater Lake Lumber Co.	
Crown Pacific	Steam	Wood	1.5		Gilchrist	OR	Crown Pacific Partners, LP	Crown Pacific Partners, LP	
Daishowa	Steam	Oil/wood			Port Angeles	WA	Daishowa America Co., LTD	Daishowa America Co. LTD	
<i>Project</i>	<i>Type</i>	<i>Fuel</i>	<i>Installed</i>	<i>Initial</i>	<i>Site</i>	<i>State</i>	<i>Owner of Power Plant</i>	<i>Thermal Load</i>	<i>Comments</i>

**Table A-4**  
Cogeneration Plants

<i>Project</i>	<i>Type</i>	<i>Fuel</i>	<i>Installed Capacity (MW)</i>	<i>Initial Service</i>	<i>Site</i>	<i>State</i>	<i>Owner of Power Plant</i>	<i>Thermal Load</i>	<i>Comments</i>
DAW (Diamond Int.) Forest Products	Steam	Wood	10.0	1960	Bend	OR	DAW Forest Products	DAW Forest Products	Power to Pacificorp
Ellingson Lumber	Steam	Wood	2.8		Baker	OR	Ellingson Lumber	Ellingson Lumber	Idle
Encogen - Bellingham	Combined-cycle	Natural gas	160.0	1993	Bellingham	WA	Enserch Development Corp.	Georgia Pacific	Power to Puget Sound Power & Light Co.
Eugene/Springfield Wastewater		Waste gas	0.8		Springfield	OR	Eugene/Springfield Metro	Eugene/Springfield Metro WWTP	
Evergreen Forest Products	Steam	Wood	5.0	1983	New Meadows	ID	Tamarack Energy Corp.	Evergreen Forest Products	Power to Idaho Power Co.
Georgia-Pacific	Steam	Wood	2.0		Lebanon	OR	Georgia-Pacific Corp.	Georgia-Pacific Corp.	
Gorge Energy	Steam	Wood	8.5		Bingen	WA	SDS Lumber Co.	SDS Lumber Co.	
Guy Bennett Lumber	Steam	Wood			Clarkston	WA	Guy Bennett Lumber Co.	Guy Bennett Lumber Co.	
Hermiston Generating Project 1	Combined-cycle	Natural gas	234.5	1996	Hermiston	OR	U.S. Generating Co.	Lamb Weston	Under construction; Power to be to Pacificorp
Hermiston Generating Project 2	Combined-cycle	Natural gas	234.5	1996	Hermiston	OR	U.S. Generating Co.	Lamb Weston	Under construction; Power to be to Pacificorp
ITT Rayonier (Hoquiam)	Steam	Wood	4.4		Hoquiam	WA	ITT Rayonier, Inc.	ITT Rayonier, Inc.	Idle
ITT Rayonier (Port Angeles)	Steam	Liquor/oil/wood	13.0		Port Angeles	WA	ITT Rayonier, Inc.	ITT Rayonier, Inc.	
James River (Camas)	Steam	Liquor/natural gas/oil/wood	52.0		Camas	WA	PacifiCorp	James River Corp.	
James River (Wauna)	Fluid bed Steam	Liquor/natural gas/oil/wood	36.0	1996	Wauna	OR	Clatskanie Co. PUD; EWEB	James River Corp.	Power to be to BPA
Kimberly-Clark (Scott )	Steam	Liquor/wood/natural gas	52.2	1995	Everett	WA	Snohomish Co. PUD	Kimberly-Clark	
Kinzua	Steam	Wood	10.0	1985	Heppner	OR	Kinzua Energy Corp		Idle
Lane Plywood		Wood	1.0	1982	Eugene	OR	Lane Plywood	Lane Plywood	
Longview Fibre	Steam	Liquor/natural gas/oil/wood	72.0	1970	Longview	WA	Longview Fibre Co.	Longview Fibre Co.	



**Table A-4**  
Cogeneration Plants

			(MW)							
Longview Fibre	Gas turbine	Natural gas	65.0	1995	Longview	WA	KVA Resources	Longview Fibre Co.		
Magic Valley		Natural gas	10.0	1996	Rupert	ID	Catamount Energy Corp.		Under construction; power to be to Idaho Power Co.	
Magic West		Natural gas	10.0	1996		ID	Catamount Energy Corp.		Under construction; power to be to Idaho Power Co.	
March Point 1	Combined- cycle	Refinery gas/natural gas	80.0	1991	Anacortes	WA	March Point Associates	Texaco	Power to Puget Sound Power & Light Co.	
March Point 2	Combined- cycle	Refinery gas/natural gas	60.0	1993	Anacortes	WA	March Point Associates	Texaco	Power to Puget Sound Power & Light Co.	
Medite Corp.	Steam	Wood	1.0		Medford	OR	Medite MDF Div., Medford Corp.	Medite Corp.		
Metro West Point	Recip. Engine	Waste gas	3.9	1982	Seattle	WA	Metro	Metro West Point Wastewater Plant	Power to Seattle City Light	
North Powder	Gasifier	Wood	7.0	1985	North Powder	OR	Time Energy Inc		Idle	
Ochoco Lumber Company	Steam	Wood			Prineville	OR	Ochoco Lumber Co.	Ochoco Lumber Co.	Idle	
Omak Wood Products		Wood	7.5		Omak	WA	Omak Wood Products	Omak Wood Products		
Pine Products Corporation	Steam	Wood	5.7	1989	Prineville	OR	Pine Products Corp.	Pine Products Corp.	Power to Pacificorp	
Pocatello Wastewater		Waste gas	0.1		Pocatello	ID		Pocatello Wastewater	Power to Idaho Power Co.	
Port Townsend Paper	Steam	Liquor/oil/ wood	4.4		Port Townsend	WA	James River Corp.	Port Townsend Paper		
Potlatch - Lewiston 1-4	Steam	Liquor/ wood/ natural gas	126.2		Lewiston	ID	Potlatch Corp.	Potlatch Corp.	Power to Washington Water Power Co.	
Roseburg Forest Products	Steam	Wood	45.0	1983	Dillard	OR	Roseburg Forest Products Co.	Roseburg Forest Products Co.		
Simplot Pocatello		Wood	15.0	1991	Pocatello	ID	J.R. Simplot	J.R. Simplot	Power to Idaho Power Co.	
Simpson Paper Co.	Steam	Natural gas /oil/wood			West Linn	OR	Simpson Paper Co.	Simpson Paper Co.		
<i>Project</i>	<i>Type</i>	<i>Fuel</i>	<i>Installed Capacity (MW)</i>	<i>Initial Service</i>	<i>Site</i>	<i>State</i>	<i>Owner of Power Plant</i>	<i>Thermal Load</i>	<i>Comments</i>	

**Table A-4**  
Cogeneration Plants

Smurfit (Newberg)	Steam	Natural gas /oil/wood	40.0		Newberg	OR	Smurfit Newsprint Corp.	Smurfit Newsprint Corp.	
Smurfit (Oregon City)	Steam	Natural gas /oil	15.0		Oregon City	OR	Smurfit Newsprint Corp.	Smurfit Newsprint Corp.	
Spokane Wastewater		Waste gas	0.3		Spokane	WA		Spokane Wastewater WWTP	
Stone Container Corp.	Steam	Liquor/ wood/ natural gas	10.5		Missoula	MT	Stone Container Corp.	Stone Container Corp.	
Sumas Energy	Combined-cycle	Natural gas	123.0	1993	Sumas	WA	Sumas Cogeneration Co.	Socco Forest Products	Power to Puget Sound Power & Light Co.
Tenaska Washington I	Combined-cycle	Natural gas	245.0	1994	Ferndale	WA	Tenaska Power Partners	TOSCO	Power to Puget Sound Power & Light Co.
University of Oregon	Steam	Wood	5.5		Eugene	OR	State of Oregon	University of Oregon	
University of Washington	Steam	Natural gas /oil	5.0		Seattle	WA	State of Washington	University of Washington	
Warm Springs Forest Products	Steam	Wood	9.0	1960	Warm Springs	OR	Warm Springs Forest Prod.	Warm Springs Forest Products	Power to Pacificorp
Washington State University	Steam	Col	2.5		Pullman	WA	State of Washington	Washington State University	
Weyerhaeuser (Cosmopolis)	Steam	Liquor/oil/ wood	15.0		Cosmopolis	WA	Weyerhaeuser Co.	Weyerhaeuser Co.	
Weyerhaeuser (Everett)	Steam	Liquor/ oil/wood	12.5		Everett	WA	Weyerhaeuser Co.	Weyerhaeuser Co.	Idle
Weyerhaeuser (Klamath Falls)	Steam	Wood	7.5		Klamath Falls	OR	Weyerhaeuser Co.	Weyerhaeuser Co.	
Weyerhaeuser (Longview)	Steam	Liquor/coal /oil/wood	62.0		Longview	WA	Weyerhaeuser Co.	Weyerhaeuser Co.	
Weyerhaeuser (Cottage Grove)	Steam	Wood	4.0		Cottage Grove	OR	Weyerhaeuser Co.	Weyerhaeuser Co.	
Weyerhaeuser (North Bend)	Steam	Oil/wood			North Bend	OR	Weyerhaeuser Co.	Weyerhaeuser Co.	Idle
Weyerhaeuser (Springfield)	Steam	Liquor/ natural gas /oil/wood	45.0		Springfield	OR	Weyerhaeuser Co.	Weyerhaeuser Co.	
<b><i>Project</i></b>	<b><i>Type</i></b>	<b><i>Fuel</i></b>	<b><i>Installed Capacity (MW)</i></b>	<b><i>Initial Service</i></b>	<b><i>Site</i></b>	<b><i>State</i></b>	<b><i>Owner of Power Plant</i></b>	<b><i>Thermal Load</i></b>	<b><i>Comments</i></b>

**Table A-4**  
Cogeneration Plants

Weyerhaeuser (Springfield)	Steam	Liquor/ natural gas /oil/wood	51.2		Springfield	OR	Eugene Water & Electric Board/ Weyerhaeuser Co.	Weyerhaeuser Co.	
Whatcom Co. MSW		Refuse	2.0	1986	Ferndale	WA	Recomp of Washington		
West Boise Wastewater	Recip. Engine	Waste gas	0.2		Boise	ID		West Boise WWTP	Power to Idaho Power Co.
Willamette Industries (Albany)	Gas Turbine	Natural gas	45.0	1995	Albany	OR	Willamette Industries	Willamette Industries	
Willamette Industries (Sweet Home)	Steam	Wood	6.0		Sweet Home	OR	Willamette Industries	Willamette Industries	
Willamette Steam 2 & 3	Steam	Wood/oil	25.0		Eugene	OR	City of Eugene (EWEB)	EWEB district heating	Idle
Willow Lake Wastewater		Waste gas	0.8		Salem	OR	City of Salem	Willow Lake WWTP	
Wood Power	Steam	Wood	6.8	1983	Plummer	ID	Pacific Crown		

**Table A-5**  
Small Thermal Power Plants

<i>Project</i>	<i>Type</i>	<i>Fuel</i>	<i>Installed Capacity (MW)</i>	<i>Peak Capacity (MW)</i>	<i>Annual Energy (aMW)</i>	<i>Year of Initial Service</i>	<i>Site</i>	<i>State</i>	<i>Owner</i>	<i>Comments</i>
Bethel 2	Gas turbine	Oil	56.7	58.0	26.0	1973	Salem	OR	Portland General Electric Co.	
Boundary	Gas turbine		0.8	1.0	0.0		Boundary Dam	WA	City of Seattle	
Coffin Butte	Recip. Engine	Landfill gas	2.0	2.0	2.0	1995	Coffin Butte Landfill	OR	Pacific Northwest Generating Coop.	
Crystal Mountain	Recip. Engine	Oil	2.8	3.0	0.0	1973	Crystal Mountain Ski Area	WA	Puget Sound Power & Light Co.	
Eastsound	Recip. Engine	Oil	1.3	0.0	0.0		Eastsound	WA	Orcas Power & Light Co.	
Frank Bird	Steam	Natural gas	69.0			1905	Billings	MT	Montana Power Co.	Idle
Frederickson 1	Gas turbine	Natural gas	85.0	89.0	2.0	1981	Parkland	WA	Puget Sound Power & Light Co.	
Frederickson 2	Gas turbine	Natural gas	85.0	89.0	2.0	1981	Parkland	WA	Puget Sound Power & Light Co.	
Fredonia 1	Gas turbine	Natural gas	123.6	123.5	3.0	1984	Burlington	WA	Puget Sound Power & Light Co.	
Fredonia 2	Gas turbine	Natural gas	123.6	123.5	3.0	1984	Burlington	WA	Puget Sound Power & Light Co.	
Glendive	Gas turbine		30.0				Glendive	MT		Mid-continent Power Pool
Grant Village	Recip. Engine	Oil	3	3.0	0.0		Yellowstone National Park	WY	Montana Power Co.	
Kettle Falls Generating Station	Steam	Wood	57.0	47.0	40.0	1983	Kettle Falls	WA	Washington Water Power Co.	
Lake	Recip. Engine	Oil	2.7	0	0		Yellowstone National Park	WY	Montana Power Co.	
Lewis and Clark	Steam		44					MT		Mid-continent Power Pool
LOTT Wastewater	Gasifier	Waste gas	0.5				Olympia	WA		
Marion Co. Resource Recovery	Steam	Refuse	14.0	15.0	7.6	1986	Salem	OR	Ogden-Martin	Power to Portland General Electric

**Table A-5**  
Small Thermal Power Plants

<i>Project</i>	<i>Type</i>	<i>Fuel</i>	<i>Installed Capacity (MW)</i>	<i>Peak Capacity (MW)</i>	<i>Annual Energy (aMW)</i>	<i>Year of Initial Service</i>	<i>Site</i>	<i>State</i>	<i>Owner</i>	<i>Comments</i>
Miles City	Gas turbine		23.4				Miles City	MT		Mid-continent Power Pool
Montana One (AEM)	Fluid bed steam	Coal	43.7	39.0		1991	Colstrip	MT	Colstrip Energy LP	Power to Montana Power Co.
Northeast 1 & 2	Gas turbine	Natural gas	61.2	69.0	54.0	1978	Spokane	WA	Washington Water Power Co.	
Old Faithful 1	Recip. Engine	Oil	1	1.0	0.0		Yellowstone National Park	WY	Montana Power Co.	
Old Faithful 2	Recip. Engine	Oil	1	1.0	0.0		Yellowstone National Park	WY	Montana Power Co.	
Point Whitehorn 1	Gas turbine	Oil	61.0	67.0	13.0	1974	Ferndale	WA	Puget Sound Power & Light Co.	
Point Whitehorn 2	Gas turbine	Natural gas	85.0	89.0	13.0	1981	Ferndale	WA	Puget Sound Power & Light Co.	
Point Whitehorn 3	Gas turbine	Natural gas	85.0	89.0	13.0	1981	Ferndale	WA	Puget Sound Power & Light Co.	
Rathdrum 1	Gas turbine	Natural gas	83.5	88.0	0.0	1995	Rathdrum	ID	Washington Water Power Co.	
Rathdrum 2	Gas turbine	Natural gas	83.5	88.0	0.0	1995	Rathdrum	ID	Washington Water Power Co.	
Salmon 1	Recip. Engine	Oil	2.8			1967	Salmon	ID	Idaho Power Co.	
Salmon 2	Recip. Engine	Oil	2.8			1967	Salmon	ID	Idaho Power Co.	
Short Mountain	Recip. Engine	Landfill gas	2.0	3.0	3.0	1992	Short Mtn. Landfill	OR	Emerald PUD	Power to BPA
Shuffleton 1	Steam	Oil	35.1	44	1	1930	Renton	WA	Puget Sound Power & Light Co.	
Shuffleton 2	Steam	Oil	35.1	44	1	1930	Renton	WA	Puget Sound Power & Light Co.	
Skagit Co. Resource Recovery	Recip. Engine	Refuse	2.5	2.0		1988	Mt. Vernon	WA	Skagit County	

**Table A-5**  
Small Thermal Power Plants

<i>Project</i>	<i>Type</i>	<i>Fuel</i>	<i>Installed Capacity (MW)</i>	<i>Peak Capacity (MW)</i>	<i>Annual Energy (aMW)</i>	<i>Year of Initial Service</i>	<i>Site</i>	<i>State</i>	<i>Owner</i>	<i>Comments</i>
South Whidbey	Gas turbine	Oil	27.0	29.0	1.0	1972	Langley	WA	Puget Sound Power & Light Co.	
Spokane MSW	Steam	Refuse	23.0	23.0	15.3	1991	Airway Heights	WA	City Of Spokane	Power to Puget Sound Power & Light Co.
Steam Plant No. 2	Fluid bed steam	Coal/ wood/ refuse	50.0	38.0	20.0	1989	Tacoma	WA	City of Tacoma	
Summit 1	Recip. Engine	Oil	3	3.0	0.0	1967	Government Camp	OR	Portland General Electric Co.	
Summit 2	Recip. Engine	Oil	3	3.0	0.0	1967	Government Camp	OR	Portland General Electric Co.	

**Table A-6**  
**Owners Abbreviations**

BPA	Bonneville Power Administration
FCRPS	Federal Columbia River Power System
GECC	General Electric Credit Corp.
GHPD	Grays Harbor County PUD
IPC	Idaho Power Co.
MPC	Montana Power Co.
PAC	PacifiCorp
PGE	Portland General Electric Co.
PNGC	Pacific Northwest Generating Cooperative
PSPL	Puget Sound Power & Light Co.
SCL	City of Seattle, City Light Department
SHPD	Snohomish County PUD No 1
SPP	Sierra Pacific Power Co.
TCL	City of Tacoma Light Division
USBI	U.S. Bureau of Indian Affairs
USBR	U.S. Bureau of Reclamation
USCE	U.S. Army Corps of Engineers
WPPSS	Washington Public Power Supply System
WWPC	Washington Water Power Co.
WWTP	Waste water treatment plant

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