5. Resources

PacifiCorp's generation portfolio consists of more than 150 individual resources, including thermal plants, hydro-electric plants, a wind plant and power purchase contracts. Some resources are jointly owned with other utilities. Some resources are operated by other joint owners. This section provides a brief overview and list of PacifiCorp resources. Detailed descriptions of plant resources are included in Appendix A.

A. Thermal Resources.

Thermal resources consist of conventional steam plants, combined cycle plants, co-generation facilities and a geothermal plant. PacifiCorp is the sole owner and operator of seven thermal plants. PacifiCorp operates and jointly owns three other thermal plants. PacifiCorp is a joint owner in six other plants that are operated by other joint owners. Plant ownership and net capacities are listed in Exhibit 5-1.

PacifiCorp's coal-fired plants operate as base load facilities with high capacity factors. Most generating units have scheduled major maintenance overhauls every 4-5 years. Total net capacity of PacifiCorp's coal fired plants is 6106 MW. These coal-fired plants include: Carbon, Dave Johnston, Hunter, Huntington, Jim Bridger, Naughton, Wyodak, Cholla, Craig, Hayden, and Colstrip.

The 23 MW Blundell plant in southern Utah is PacifiCorp's only geothermal steam plant. The steam field that supplies the plant is owned and operated by IGC. PacifiCorp has pre-purchased the steam and pays annual operating expenses for the steam field.

PacifiCorp's natural gas fired plants are diverse in design. The Gadsby Plant is a conventional steam turbine plant. This three-unit plant has a capacity of 265 net MW. The first unit was constructed in 1951. The scheduled retirement date is 2007. The plant retirement date will be reviewed 4 to 5 years before retirement to reassess plant economics. This plant operates as a peaking plant or a mid-merit plant depending on fuel prices and market prices.

The Little Mountain plant is a 14 MW gas turbine and waste heat boiler that supplies electricity and steam to IMC. PacifiCorp's contract with IMC ends in 2001 and is currently under review.

The Hermiston Plant is a relatively new combined-cycle plant. The plant has two units with an official net capacity of 468 MW. PacifiCorp owns fifty percent of the plant and has contracted for the output of the other half. The joint owner and operator of the plant is PG&E National Energy Group.

B. Hydro-electric Resources.

PacifiCorp's hydro portfolio consists of 53 plants, which includes 87 generating units with a total capacity of nearly 1100 MW. Ninety-seven percent of PacifiCorp's installed capacity is regulated by the Federal Energy Regulatory Commission (FERC) through 20 individual licenses. FERC-licensed projects are located in six states and range in size from less than 1 MW (American Fork) to over 240 MW (Swift No. 1). PacifiCorp is one of the five most active private utilities in the licensing process, based on the number of FERC licenses held.

The Company's hydro portfolio includes many old and small facilities. The average age of plants in the portfolio is 77 years, which is similar to many of the larger private utilities in the United States.

The hydro plants are grouped by river systems for indicative valuations. The plants are combined into two groups for load/resource modeling, the "Pacific System Hydro" and the "Utah System Hydro". Individual plant capacities are listed in Exhibit 5-2.

C. Wind Plant.

The Foote Creek Wind Generating Station is located near Interstate Highway I-80 in Arlington, Wyoming. The station consists of sixty-nine Mitsubishi Heavy Industry fully automatic wind turbine generators rated at 600 kW each. The total station output is 41.4 MW. The project is jointly owned by PacifiCorp (79%), and Eugene Water and Electric Board (21%). The project is operated by SeaWest. Additional information is provided in Exhibit 5-1.

D. Wholesale Power Purchases.

PacifiCorp uses contracts for the procurement of a portion of its capacity and energy needs, as well as for exchanging power with other companies that trade in the wholesale electricity markets. PacifiCorp's largest contract is with the Bonneville Power Administration under which the Company purchases up to 925 MW of power during peak hours. This contract allows PacifiCorp to supply a significant portion of its peak requirements without having to add peak generating units such as combustion turbines to its portfolio. A brief description of each of PacifiCorp's contracts in place in 2003 is contained in Exhibit 5-3.

E. Other.

PacifiCorp incurs power supply expenses related to small power supply activities such as solar panel installations. The associated revenue requirement is provided in Appendices B, C and D.

PacifiCorp Thermal and Wind Generation Plant Capacities

Thermal Units - PacifiCorp Owned and Operated

	PacifiCorp Ownership (percent)	Maximum Generator Nameplate Capacity MW	100% Gross Capacity MW	100% Net Capacity MW	PacifiCorp Share Generator Nameplate Capacity MW	PacifiCorp Share Net Capacity MW
Blundell 1	100.00	26.1	25.0	23.0	26.1	23.0
Carbon 1	100.00	75.0	80.0	70.0	75.0	70.0
Carbon 2	100.00	113.6	125.0	105.0	113.6	105.0
Dave Johnston 1	100.00	113.6	125.0	106.0	113.6	106.0
Dave Johnston 2	100.00	113.6	125.0	106.0	113.6	106.0
Dave Johnston 3	100.00	229.5	265.0	230.0	229.5	230.0
Dave Johnston 4	100.00	360.0	375.0	330.0	360.0	330.0
Gadsby 1	100.00	69.0	80.0	60.0	69.0	60.0
Gadsby 2	100.00	69.0	100.0	75.0	69.0	75.0
Gadsby 3	100.00	113.6	125.0	100.0	113.6	100.0
Hunter 1	93.75	472.5	475.0	430.0	418.5	403.1
Hunter 2	60.31	472.5	475.0	430.0	285.0	259.3
Hunter 3	100.00	495.6	495.0	460.0	495.6	460.0
Huntington 1	100.00	498.0	495.0	440.0	498.0	440.0
Huntington 2	100.00	498.0	495.0	455.0	498.0	455.0
Jim Bridger 1	66.67	577.9	600.0	530.0	385.3	353.3
Jim Bridger 2	66.67	577.9	600.0	530.0	385.3	353.3
Jim Bridger 3	66.67	577.9	600.0	530.0	385.3	353.3
Jim Bridger 4	66.67	560.6	580.0	520.0	373.7	346.7
Little Mountain	0.00	16.0	16.0	14.0	16.0	0.0
Naughton 1	100.00	163.2	180.0	160.0	163.2	160.0
Naughton 2	100.00	217.6	235.0	210.0	217.6	210.0
Naughton 3	100.00	326.4	370.0	330.0	326.4	330.0
Wyodak 1	80.00	362.1	400.0	335.0	289.7	268.0
Total		**7099.2**	**7441.0**	**6579.0**	**6020.5**	**5597.0**

Thermal Units - PacifiCorp Owned - Operated by Others

	PacifiCorp Ownership (percent)	Maximum Generator Nameplate Capacity MW	100% Gross Capacity MW	100% Net Capacity MW	PacifiCorp Share Generator Nameplate Capacity MW	PacifiCorp Share Net Capacity MW
Cholla 4	100.00	414.0	415.0	380.0	414.0	380.0
Colstrip 3	10.00	778.0		740.0	77.8	72.0
Colstrip 4	10.00	778.0		740.0	77.8	72.0
Craig 1	19.28	446.4		428.0	86.1	82.5
Craig 2	19.28	446.4		428.0	86.1	82.5
Hayden 1	24.50	190.0		184.0	46.6	45.0
Hayden 2	12.60	257.0		262.0	32.4	33.0
James River	100.00	52.2		52.0	52.2	52.0
Total					**872.9**	**819.0**

PacifiCorp Thermal and Wind Generation Plant Capacities

Thermal Plants - PacifiCorp Owned and Operated

	PacifiCorp Ownership (percent)	Maximum Generator Nameplate Capacity MW	100% Gross Capacity MW	100% Net Capacity MW	PacifiCorp Share Generator Nameplate Capacity MW	PacifiCorp Share Net Capacity MW
Blundell	100.00	26.1	25.0	23.0	26.1	23.0
Carbon	100.00	188.6	205.0	175.0	188.6	175.0
Dave Johnston	100.00	816.8	890.0	772.0	816.8	772.0
Gadsby	100.00	251.6	305.0	235.0	251.6	235.0
Hunter	85.03	1440.6	1445.0	1320.0	1199.0	1122.4
Huntington	100.00	996.0	990.0	895.0	996.0	895.0
Jim Bridger	66.66	2294.2	2380.0	2110.0	1529.5	1406.6
Little Mountain	100.00	16.0	16.0	14.0	16.0	14.0
Naughton	100.00	707.2	785.0	700.0	707.2	700.0
Wyodak	80.00	362.1	400.0	335.0	289.7	268.0
Total		**7099.2**	**7441.0**	**6579.0**	**6020.5**	**5611.0**

Thermal Plants - PacifiCorp Owned - Operated by Others

	PacifiCorp Ownership (percent)	Maximum Generator Nameplate Capacity MW	100% Gross Capacity MW	100% Net Capacity MW	PacifiCorp Share Generator Nameplate Capacity MW	PacifiCorp Share Net Capacity MW
Cholla	100.00	414.0	415.0	380.0	414.0	380.0
Colstrip	10.00	1556.0		1480.0	155.6	144.0
Craig	10.00	892.8		856.0	172.1	165.0
Hayden	17.49	447.0		446.0	78.9	78.0
Hermiston	50.00	621.2		468.0	310.6	234.0
James River	100.00	52.2		52.0	52.2	52.0
Total				**3682.0**	**1183.5**	**1053.0**

Wind Plant - PacifiCorp Owned - Operated by Others

	PacifiCorp Ownership (percent)	Maximum Generator Nameplate Capacity MW	100% Gross Capacity MW	100% Net Capacity MW	PacifiCorp Share Generator Nameplate Capacity MW	PacifiCorp Share Net Capacity MW
Foote Creek	78.790		41.4	41.4	32.6	32.6

PacifiCorp Hydro Generation Plant Capacities
Hydro Generators - PacifiCorp Owned and Operated

Unit	State	Percent Ownership	Generator Nameplate Capacity MW	Net Capability Summer MW	Net Capability Winter MW
Ashton Unit 1		100	2.9	2.9	2.9
Ashton Unit 2		100	2.0	2.2	2.2
Ashton Unit 3		100	2.0	2.2	2.2
St. Anthony Unit 1		100	0.5	0.4	0.4
Cutler Unit 1		100	15.0	14.6	14.6
Cutler Unit 2		100	15.0	14.6	14.6
Cove		100	7.5	7.0	7.0
Grace Unit 3		100	11.0	11.0	11.0
Grace Unit 4		100	11.0	11.0	11.0
Grace Unit 5		100	11.0	11.0	11.0
Oneida Unit 1		100	10.0	9.3	9.3
Oneida Unit 2		100	10.0	9.3	9.3
Oneida Unit 3		100	10.0	9.3	9.3
Soda Unit 1		100	7.0	7.0	7.0
Soda Unit 2		100	7.0	7.0	7.0
Upper American Fork		100	1.0	0.4	0.4
Pioneer Unit 1		100	2.5	2.0	2.0
Pioneer Unit 2		100	2.5	2.0	2.0
Stairs Unit 3		100	1.0	0.6	0.6
Weber		100	3.9	2.0	2.0
Big Fork Unit 1		100	1.7	1.7	1.7
Big Fork Unit 2		100	1.7	1.7	1.7
Big Fork Unit 3		100	0.8	0.8	0.8
Wallowa Falls		100	1.1	0.9	1.0
Powerdale		100	6.0	6.5	6.5
Condit Unit 1		100	4.8	7.5	7.5
Condit Unit 2		100	4.8	7.5	7.5
Merwin Unit 1		100	45.0	48.0	45.0
Merwin Unit 2		100	45.0	48.0	48.0
Merwin Unit 3		100	45.0	48.0	48.0
Merwin House Unit		100	1.0	1.0	1.0
Swift No. 1 Unit 11		100	80.0	89.3	88.0
Swift No. 1 Unit 12		100	80.0	89.3	88.0
Swift No. 1 Unit 13		100	80.0	85.0	87.0
Yale Unit 1		100	67.0	67.0	67.0
Yale Unit 2		100	67.0	67.0	67.0
Lemolo #1		100	29.0	28.0	29.0
Lemolo #2		100	33.0	34.0	35.0
Clearwater #1		100	15.0	15.0	15.0
Clearwater #2		100	26.0	26.0	26.0
Toketee Unit 1		100	14.2	15.0	15.0
Toketee Unit 2		100	14.2	15.0	15.0
Toketee Unit 3		100	14.2	15.0	15.0
Fish Creek		100	11.0	12.0	12.0
Soda Springs		100	11.0	11.5	11.0
Slide Creek		100	18.0	18.0	18.0
Prospect #1 Unit 1		100	3.8	4.7	5.0
Prospect #2 Unit 1		100	16.0	18.0	18.0
Prospect #2 Unit 2		100	16.0	18.0	18.0
Prospect #3 Unit 1		100	7.2	7.5	8.0

Unit	State	Percent Ownership	Maximum Generator Nameplate Capacity MW	Net Capability Summer MW	Net Capability Winter MW
Prospect #4 Unit 1		100	1.0	1.0	1.0
East Side		100	3.2	3.0	3.0
West Side		100	0.6	1.0	1.0
JC Boyle Unit 1		100	40.0	42.0	46.0
JC Boyle Unit 2		100	40.0	42.0	44.0
Copco 1 Unit 1		100	10.0	12.5	12.5
Copco 1 Unit 2		100	10.0	12.5	12.5
Copco 2 Unit 1		100	13.5	14.8	14.8
Copco 2 Unit 2		100	13.5	14.8	14.8
Iron Gate		100	18.0	19.5	20.0
Fall Creek Unit 1		100	0.5	0.5	0.5
Fall Creek Unit 2		100	0.5	0.5	0.5
Fall Creek Unit 3		100	1.3	1.3	1.3
Paris		100	0.7	0.5	0.5
Last Chance Unit 1		100	0.2	0.2	0.2
Last Chance Unit 2		100	0.5	0.4	0.4
Last Chance Unit 3		100	1.0	0.8	0.8
Upper Beaver Unit 1		100	1.3	1.1	1.1
Upper Beaver Unit 2		100	1.2	1.1	1.1
Granite		100	2.0	1.2	1.2
Snake Creek Unit 1		100	0.6	0.5	0.5
Snake Creek Unit 2		100	0.6	0.5	0.5
Fountain Green		100	0.2	0.1	0.1
Gunlock		100	0.8	0.5	0.5
Sand Cove		100	0.8	0.5	0.5
Veyo		100	0.5	0.5	0.5
Viva Naughton Unit 1		100	0.6	0.6	0.6
Viva Naughton Unit 2		100	0.2	0.2	0.2
Cline Falls		100	1.0		1.0
Bend Unit 1		100	0.2	0.2	0.2
Bend Unit 2		100	0.4	0.4	0.4
Bend Unit 3		100	0.6	0.6	0.6
Skookumchuck		100	1.0	1.0	1.0
Naches Drop Unit 1		100	1.4	1.1	1.1
Naches Unit 2		100	3.0	2.7	2.7
Naches Unit 4		100	3.4	4.0	4.0
Eagle Point		100	2.8	3.0	3.0
Total Owned Hydro Capacity			**1068.7**	**1119.2**	**1125.5**

Hydro Generators - PacifiCorp Operated, but Not Owned

Unit	State	Percent Ownership	Maximum Generator Nameplate Capacity MW	Net Capability Summer MW	Net Capability Winter MW
Swift No. 2 Unit 21		0	35.0	34.0	36.0
Swift No. 2 Unit 22		0	35.0	31.0	34.0
Olmstead Unit 1		0	2.4	2.4	2.4
Olmstead Unit 2		0	2.4	2.4	2.4
Olmstead Unit 4		0	5.5	5.5	3.0
Total Contract Operated Hydro Capacity			**80.3**	**75.3**	**77.8**

Hydro Plants - PacifiCorp Owned and Operated

Plant	State	River System	Maximum Generator Nameplate Capacity MW	Net Capability Summer MW	Net Capability Winter MW
Ashton	Idaho	East	6.9	7.3	7.3
St. Anthony	Idaho	East	0.5	0.4	0.4
Cutler	Utah	Bear	30.0	29.1	29.1
Cove	Idaho	Bear	7.5	7.0	7.0
Grace	Idaho	Bear	33.0	33.0	33.0
Oneida	Idaho	Bear	30.0	28.0	28.0
Soda	Idaho	Bear	14.0	14.0	14.0
Upper American Fork	Utah	East	1.0	0.4	0.4
Pioneer	Utah	East	5.0	4.0	4.0
Stairs	Utah	East	1.0	0.6	0.6
Weber	Utah	East	3.9	2.0	2.0
Big Fork	Montana	Sm. North	4.2	4.2	4.2
Wallowa Falls	Oregon	Sm. North	1.1	0.9	1.0
Powerdale	Oregon	Sm. North	6.0	6.5	6.5
Condit	Washington	Sm. North	9.6	15.0	15.0
Merwin	Washington	Lewis	136.0	145.0	142.0
Swift No. 1	Washington	Lewis	240.0	263.6	263.0
Yale	Washington	Lewis	134.0	134.0	134.0
Clearwater #1	Oregon	N. Umpqua	15.0	15.0	15.0
Clearwater #2	Oregon	N. Umpqua	26.0	26.0	26.0
Lemolo #1 (N. Umpqua)	Oregon	N. Umpqua	29.0	28.0	29.0
Lemolo #2 (N. Umpqua)	Oregon	N. Umpqua	33.0	34.0	35.0
Toketee (N. Umpqua)	Oregon	N. Umpqua	42.5	45.0	45.0
Soda Springs (N. Umpqua)	Oregon	N. Umpqua	11.0	11.5	11.0
Slide Creek (N. Umpqua)	Oregon	N. Umpqua	18.0	18.0	18.0
Fish Creek	Oregon	N. Umpqua	11.0	12.0	12.0
Prospect #1	Oregon	Rogue	3.8	4.7	5.0
Prospect #2	Oregon	Rogue	32.0	36.0	36.0
Prospect #3	Oregon	Rogue	7.2	7.5	8.0
Prospect #4	Oregon	Rogue	1.0	1.0	1.0
East Side	Oregon	Klamath	3.2	3.0	3.0
West Side	Oregon	Klamath	0.6	1.0	1.0
JC Boyle	Oregon	Klamath	80.0	84.0	90.0
Copco 1	Oregon	Klamath	20.0	25.0	25.0
Copco 2	Oregon	Klamath	27.0	29.5	29.5
Iron Gate	Oregon	Klamath	18.0	19.5	20.0
Fall Creek	Oregon	Klamath	2.2	2.2	2.2
Paris	Idaho	East	0.7	0.5	0.5
Last Chance	Idaho	Bear	1.7	1.5	1.5
Upper Beaver	Utah	East	2.5	2.2	2.2
Granite	Utah	East	2.0	1.2	1.2
Snake Creek	Utah	East	1.2	1.0	1.0
Fountain Green	Utah	East	0.2	0.1	0.1
Gunlock (Santa Clara Proj)	Utah	East	0.8	0.5	0.5
Sand Cove (Santa Clara Proj)	Utah	East	0.8	0.5	0.5
Veyo (Santa Clara Proj)	Utah	East	0.5	0.5	0.5
Viva Naughton	Wyoming	East	0.7	0.7	0.7
Cline Falls	Oregon	Sm. North	1.0	0.0	1.0
Bend	Oregon	Sm. North	1.1	1.1	1.1
Skookumchuck	Washington	Sm. North	1.0	1.0	1.0
Naches Drop (Drop)	Washington	Sm. North	1.4	1.1	1.1
Naches	Washington	Sm. North	6.4	6.7	6.7
Eagle Point	Oregon	Sm. North	2.8	3.0	3.0
Total Owned Hydro Capacity			**1068.7**	**1119.2**	**1125.5**

Hydro Plants - PacifiCorp Operated, but Not Owned

Plant	State	Percent Ownership	Maximum Generator Nameplate Capacity MW	Net Capability Summer MW	Net Capability Winter MW
Olmstead	Utah		10.3	10.3	7.8
Swift No.2	Oregon		70.0	65.0	70.0
Total Contract Operated Hydro Capacity			**80.3**	**75.3**	**77.8**
Total Operated Hydro Capacity			**1149.0**	**1194.5**	**1203.3**

Contract Resources	Description of Wholesale Contracts
APS Exchange	Zero energy balance and seasonal exchange at capacity of 480 MW, expires in 2020
APS Purchase	The Company has the right to APS's generation when needed, at operating cost, expires in 2020
Avista Exchange	Zero energy balance and seasonal exchange at capacity of 50 MW, expires in 2009
Avista Summer Purchase	Summer purchase, about 10 MWa for a year and 150 MW, expires in 2003
Black Hills Capacity	Capacity purchase: the Company has the right to Black Hills CT, 100 MW, expires in 2011
BPA Exchange	Zero energy balance exchange, expires in 2014
BPA Peaking Purchase	Capacity purchase, 925 MW in 2001, decrease in increments of 175 MW to 575 in 2004, expires in 2011
BPA Supplemental Capacity	Capacity purchase, 4 MW, expires in 2003
BPA, South Idaho Exchange	Exchange to serve other party's retail load outside its service area. The Company provides limited storage
Canadian Entitlement	Returning a share of Canada's entitlement energy under the treaty between US and Cananda, expires when Company's last Mid-C purchase contract expires 2018
City of Hurricane purchase	Less than half a MW, expires in 2007
Colockum	Colockum assign 8% of its right to Rocky Reach project to the Company, and in exchange for energy delivery from the Company, capacity at 103 MW, expires in 2003
CSPE	Rights aquired under the treaty between US and Cananda relating to Mid-Columbia projects, about 10 MWa, expires in 2003
Deseret, Annual	Part of the purchase from Deseret, Deseret terminated this in 2000
Deseret, Expansion	Part of the purchase from Deseret: surplus energy from Hunter #2, about 25 MWa, expires in 2003
Deseret, Monthly	Part of the purchase from Deseret: maximum non-zero average monthly energy, about 10 MWa, expires 2003
Deseret, NF Purchase	Part of the purchase from Deseret: non-firm energy, about 10 MWa, expires 2003
Enron Purchase	14 MWa, at 25 MW, expires in 2004
Gem State	Purchase of 39% output of Gem State project from City of Idaho Falls, during Apr-Aug. 8 MWa, at 22 MW, expires in 2023
Grant County	10 MWa, at 14 MW, terminate with 2-year advance notice (assume no notice of termination)
Great Salt Lake Minerals	Suplur energy from the Little Mountain facilities in excess of Great Salt Lake Mineral's requirement, about 4 MWa, half starting the next year due to change in operation
Hermiston Purchase	Purchase portion of the generation from Hermiston project, at capacity of 240 MW and about 80% capacity factor, expires in 2016
IPC_Return	Energy returned for losses incurred by Idaho Power to transfer power for the Company, about 10 MWa
IPP Purchase	One side of the pass-through transaction with LADWP (see IPP Sale)
James River	Purchase from James River co-generation project, 42 MWa and 52 MW, expires in 2015
LTF Reserve Purchases	Purchase for operating reserves from industrial customers of NuCor and P4, 70 MW in total, expires in 2002
Mid Columbia	Purchase of Mid Columbia generation, decreases over the years as contracts with Grand, Chelan and Douglas counties expire. About 235 MWa and 422 MW in 2001, 71% in 2006, 30% in 2010, 14% in 2012, and 0% in 2018
PGE_Cove	Replacement power for a Company's facilities at Cove site on Crooked River. About 1.5 MWa and 3 MW in 2001, reduce by half starting 2002
Q.F. Contracts - PP&L	Purchase from PURPA facilites in the west side of the Company's system, about 59 MWa in 2001, decrease over the years as contracts expire
QF Contracts - UP&L	Purchase from PURPA facilites in the east side of the Company's system, about 55 MWa in 2001, decrease over the years as contracts expire
Redding Exchange	Zero energy balance exchange at capacity of 29 MW, expires in 2015
SCE Purchase	Capacity purchase for winter peak, 422 MW, expires in 2003
TransAlta Purchase	Purchase replacin Centralia generation, 300 MW increase to 400 MW in 2002, at minimum of 94% capacity factor, expires in 2007
Tri State Exchange	Zero energy balance and seasonal exchange at capacity of 50 MW, expires in 2007
TriState Purchase	About 33 MWa and 50 MW, expires in 2020
Sales	
APPA-AEPCO	Summer sales to APPA member AEPCO, about 4 MWa and 35 MW, expires in 2003
Black Hills	About 50 MWa, 65 MW in 2001, decrease by 5 MW increment to 50 MW in 2004, expires in 2023
Black Hills Capacity	Capacity sales when nominated be Black Hills, expires in 2002
BPA Wind Sale	Sales to BPA from the Foote Creek wind projects, about 6 MWa and 13 MW, expires in 2024
CDWR Sale	70 MWa and 100 MW, expires in 2004
Citizens Power	About 15 MWa, 80 MW, expires in 2002
City of Hurricane Sales	About half a MWa and 1 MW, expires in 2007
Clark Sale	About 92 MWa, 100 MW, expires in 2001
Clark-WT	Sales to Clark County's Wafer Tech, 10 MW at 100% load factor, expires in 2002
Cowlitz-BHP	Sales to Cowlitz County's BHP Steel, about 8 MWa, 10 MW, expires in 2002
Deseret Supplemental	Sales to Deseret during deficiency, or when market price is lower than operating cost, expires in 2003
Flathead Sale	Sales to Flathead Coop for portion of the Montana load that the Company has previously served, 70 MW at 100% load factor, expired in 2006
Green Mountains	Sales of green energy to California customers, expire in 2001
IPP Sale	One side of the pass-through transaction with LADWP (see IPP Purchase)
Okanogan	About 3 MWa, 5 MW, expires in 2001
PNGC	No summer season, 60 MW at 100% load factor, expires in 2001
PSCo Sale	About 132 MWa, 176 MW, decrease to 141 MW in 2008, to 107 MW in 2009, to 71 in 2010, to 36 in 2011, expires in 2011
Puget Power II	About 120 MWa, 200 MW, expires in 2003
SCE Sales	About 120 MWa, 200 MW, half delived on the west side of the Company's system, and the other half on the east side, expires in 2006
Sierra Pacific II	About 53 MWa, 75 MW, expires in 2009
SMUD	40 MWa and 100 MW, expires in 2014
Springfield	About 30 MWa, 45 MW, expires in 2003
Springfield II	No summer season, a 25 MW block and a 50 MW block, all on peak, expires in 2002
UMPA Sale	About 5 MWa, 8 MW, expires in 2005
UMPA II Sale	About 19 MWa and 69 MW, expires in 2002
WAPA Sale	Two-block sale, at 60 MW and 100% load factor, expires in 2004
WAPA II Sale	63 MWa and 75 MW, expires in 2004