

Section 8: Regional System Exhibits

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Exhibit 18

***Regional Annual Energy Analysis Under 1937-Water Conditions for 10 Operating
Years***

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Exhibit 18: OY 2004 through 2013 Annual Energy

*Loads and Resources - Pacific Northwest Region
PNW Loads and Resource Study
2004 - 2013 Operating Years
1937 Water Year
2002 White Book*

9/9/2003

Average Energy in Megawatts	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
	Avg.									
Firm Regional Loads										
Regional Firm Loads	20449	20814	21137	21532	21924	22328	22662	23000	23343	23767
Exports	1594	1464	1307	1011	917	904	903	903	906	892
Federal Diversity	0	0	0	0	0	0	0	0	0	0
Total Firm Regional Loads	22043	22277	22445	22543	22840	23232	23565	23903	24249	24659
Non-Firm Regional Loads										
Regional Non-Firm Loads	151	151	151	151	151	151	151	151	151	151
Total Non-Firm Regional Loads	151									
Total Loads	22193	22428	22595	22694	22991	23382	23715	24054	24399	24810
Hydro Resources										
Regulated Hydro	10598	10605	10622	10650	10686	10703	10721	10736	10748	10762
Independent Hydro	1084	1084	1084	1085	1085	1085	1085	1085	1085	1085
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	11681	11688	11706	11735	11770	11788	11805	11821	11832	11846
Other Resources										
Small Thermal & Misc.	17	17	17	17	17	17	17	17	17	17
Combustion Turbines	2018	2508	2820	2865	2865	2865	2865	2865	2865	2865
Renewables	77	77	77	77	77	77	77	77	77	77
Cogeneration	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963
Imports	843	772	762	721	672	659	661	612	614	611
Large Thermal	6065	5944	6091	5968	6091	5967	6073	5944	6090	5967
Non-Utility Generation	1310	1366	1347	1342	1341	1342	1342	1345	1345	1346
Resource Acquisition	0	0	0	0	0	0	0	0	0	0
Total Other Resources	12293	12646	13078	12954	13026	12890	12999	12824	12971	12847
Total Resources	23974	24334	24784	24689	24796	24677	24804	24644	24803	24693
Reserves & Maintenance										
Hydro Reserves	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0
Regional Hydro Maintenance	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
Spinning Reserves	0	0	0	0	0	0	0	0	0	0
Regional Transmission Losses	-676	-686	-699	-696	-699	-696	-699	-695	-699	-696
Total Reserves, Maintenance & Losses	-688	-698	-711	-708	-711	-708	-711	-707	-711	-708
Total Net Resources	23286	23636	24073	23981	24085	23970	24093	23938	24092	23985
Surplus/Deficits										
Firm Surplus/Deficit	1244	1359	1629	1438	1245	738	528	34	-157	-674
Total Surplus/Deficit	1093	1208	1478	1288	1095	587	378	-116	-307	-825

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