
Exhibits 22 – 24

***Regional Monthly Capacity Analysis Under The 2002 BPA White Book Load
Forecast for 1937-Water Conditions***

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Exhibit 22: OY 2003-04 Monthly Capacity

*Loads and Resources - Pacific Northwest Region
PNW Loads and Resource Study
2003 - 2004 Operating Year
1937 Water Year
2002 White Book*

9/9/2003

Capacity in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Firm Regional Loads														
Regional Firm Loads	26188	26168	24853	26195	29480	31956	33260	31851	29131	27405	27405	26373	26384	27121
Exports	3387	3387	3282	2668	2572	2612	2481	2471	2465	2486	2486	2564	2988	3016
Federal Diversity	-765	-765	-763	-781	-727	-561	-577	-566	-746	-705	-705	-812	-801	-808
Total Firm Regional Loads	28809	28789	27372	28081	31325	34008	35164	33757	30850	29186	29186	28126	28571	29329
Non-Firm Regional Loads														
Regional Non-Firm Loads	288	288	286	251	314	226	325	307	277	306	306	283	329	297
Total Non-Firm Regional Loads	288	288	286	251	314	226	325	307	277	306	306	283	329	297
Total Loads	29097	29077	27657	28333	31640	34234	35489	34064	31128	29493	29493	28409	28900	29626
Hydro Resources														
Regulated Hydro	26883	26797	26200	25447	26495	27352	27302	27132	26777	25680	26413	26494	27548	27448
Independent Hydro	1864	1846	1834	1819	1779	1766	1714	1827	1919	1968	1992	2071	2069	1924
Sustained Peaking Adjustment	-100	-100	-1293	0	0	-207	-4654	-4100	-3247	-2123	-4116	-2774	-1500	-700
Total Hydro Resources	28647	28543	26741	27266	28275	28911	24361	24858	25449	25524	24290	25791	28118	28672
Other Resources														
Small Thermal & Misc.	0	0	0	0	2.8	2.8	2.8	2.8	0	0	0	0	0	0
Combustion Turbines	3310	3310	3317	2833	3331	3338	3338	3335	3331	2955	2955	1902	2691	3304
Renewables	84	84	84	85	86	88	89	88	88	87	87	84	84	84
Cogeneration	2209	2209	2213	2215	2222	2206	2227	2224	1591	2216	2216	1179	2211	2189
Imports	940	940	869	1183	1619	1699	1632	1620	1260	707	707	491	709	836
Large Thermal	6992	6992	6992	6462	6992	6992	6992	6992	6858	6194	6194	4744	6462	6992
Non-Utility Generation	1360	1360	1311	1223	1179	1152	1135	1164	1196	1348	1348	973	1485	1458
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	14894	14894	14784	14001	15431	15477	15416	15426	14324	13508	13508	9371	13642	14863
Total Resources	43541	43437	41526	41267	43705	44388	39777	40284	39773	39032	37797	35163	41759	43535
Reserves & Maintenance														
Hydro Reserves	-1437	-1432	-1402	-1363	-1414	-1456	-1451	-1448	-1435	-1382	-1420	-1428	-1481	-1469
Small Thermal & Misc. Reserves	-348	-348	-346	-318	-341	-339	-340	-341	-310	-330	-330	-207	-324	-352
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	-1049	-1049	-1049	-969	-1049	-1049	-1049	-1049	-1029	-929	-929	-712	-969	-1049
Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
Spinning Reserves	-819	-831	-777	-801	-841	-883	-785	-780	-770	-759	-745	-741	-847	-840
Regional Transmission Losses	-1182	-1197	-1145	-1159	-1244	-1294	-1159	-1152	-1126	-1102	-1068	-995	-1204	-1210
Total Reserves, Maintenance & Losses	-9431	-8889	-8505	-7819	-7823	-7058	-6344	-7055	-7295	-7253	-6976	-6443	-7027	-8639
Total Net Resources	34111	34548	33021	33448	35882	37329	33433	33229	32477	31779	30821	28720	34733	34896
Surplus/Deficits														
Firm Surplus/Deficit	5302	5759	5649	5367	4557	3321	-1732	-528	1627	2593	1635	594	6162	5567
Total Surplus/Deficit	5013	5470	5364	5115	4243	3095	-2056	-835	1350	2286	1329	311	5833	5270

Exhibit 23: OY 2007-08 Monthly Capacity

*Loads and Resources - Pacific Northwest Region
PNW Loads and Resource Study
2007 - 2008 Operating Year
1937 Water Year
2002 White Book*

9/9/2003

<i>Capacity in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>
Firm Regional Loads														
Regional Firm Loads	28273	28273	26631	28053	31516	34382	35648	34177	31293	29416	29416	28445	28324	29147
Exports	1959	1959	1930	1795	1713	1737	1734	1723	1716	1735	1710	1759	1876	1889
Federal Diversity	-871	-871	-884	-868	-799	-615	-626	-614	-814	-763	-763	-871	-870	-885
Total Firm Regional Loads	29362	29362	27677	28979	32430	35504	36756	35285	32194	30388	30363	29332	29331	30151
Non-Firm Regional Loads														
Regional Non-Firm Loads	287	287	286	252	318	220	327	307	291	304	304	282	320	298
Total Non-Firm Regional Loads	287	287	286	252	318	220	327	307	291	304	304	282	320	298
Total Loads	29649	29649	27963	29231	32748	35723	37082	35593	32485	30693	30667	29615	29650	30449
Hydro Resources														
Regulated Hydro	26883	26797	26200	25447	26495	27352	27302	27132	26777	25680	26413	26494	27548	27448
Independent Hydro	1864	1846	1834	1820	1779	1766	1714	1827	1919	1968	1992	2071	2069	1924
Sustained Peaking Adjustment	-100	-100	-1293	0	0	0	-4654	-4100	-3018	-2123	-4116	-2743	-1500	-700
Total Hydro Resources	28647	28543	26741	27267	28275	29118	24361	24858	25678	25524	24290	25822	28117	28672
Other Resources														
Small Thermal & Misc.	0	0	0	0	2.8	2.8	2.8	2.8	0	0	0	0	0	0
Combustion Turbines	4240	4240	4247	3769	4267	4274	4274	4271	4267	3241	3241	2552	3627	4240
Renewables	84	84	84	85	86	88	89	88	88	87	87	84	84	84
Cogeneration	2209	2209	2213	2215	2222	2206	2227	2224	1591	2216	2216	1179	2211	2189
Imports	710	710	630	585	715	794	852	840	781	670	670	506	738	812
Large Thermal	6992	6992	6992	6992	6992	6992	6992	6992	6864	6992	6858	3537	6992	6992
Non-Utility Generation	1419	1419	1333	1230	1177	1163	1143	1172	1204	1356	1356	970	1485	1469
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	15654	15654	15498	14876	15462	15519	15579	15589	14796	14562	14428	8827	15136	15786
Total Resources	44301	44197	42240	42142	43736	44637	39940	40448	40474	40086	38718	34649	43254	44458
Reserves & Maintenance														
Hydro Reserves	-1437	-1432	-1402	-1363	-1414	-1456	-1451	-1448	-1435	-1382	-1420	-1428	-1481	-1469
Small Thermal & Misc. Reserves	-398	-398	-394	-365	-388	-387	-387	-388	-358	-345	-345	-239	-370	-399
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	-1049	-1049	-1049	-1049	-1049	-1049	-1049	-1049	-1030	-1049	-1029	-531	-1049	-1049
Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
Spinning Reserves	-829	-841	-789	-820	-855	-904	-799	-794	-784	-774	-761	-728	-880	-853
Regional Transmission Losses	-1206	-1221	-1166	-1184	-1243	-1300	-1162	-1155	-1147	-1132	-1095	-984	-1249	-1238
Total Reserves, Maintenance & Losses	-9513	-8972	-8587	-7989	-7882	-7132	-6408	-7119	-7379	-7433	-7133	-6269	-7231	-8727
Total Net Resources	34787	35224	33653	34153	35854	37505	33532	33328	33095	32653	31585	28380	36023	35731
Surplus/Deficits														
Firm Surplus/Deficit	5426	5863	5976	5174	3424	2001	-3224	-1957	900	2264	1222	-952	6692	5580
Total Surplus/Deficit	5138	5576	5690	4922	3106	1782	-3550	-2265	609	1960	918	-1235	6373	5282

Exhibit 24: OY 2012-13 Monthly Capacity

*Loads and Resources - Pacific Northwest Region
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
2002 White Book*

9/9/2003

<i>Capacity in Megawatts</i>	<i>Aug1</i>	<i>Aug16</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr1</i>	<i>Apr16</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>
Firm Regional Loads														
Regional Firm Loads	30779	30779	28987	30534	34155	37219	38433	37016	33846	31522	31522	30684	30610	31548
Exports	1841	1841	1810	1722	1680	1708	1704	1697	1683	1700	1700	1738	1827	1842
Federal Diversity	-918	-918	-931	-920	-844	-651	-661	-647	-861	-804	-804	-922	-918	-936
Total Firm Regional Loads	31703	31703	29865	31336	34990	38276	39477	38066	34668	32418	32418	31500	31518	32454
Non-Firm Regional Loads														
Regional Non-Firm Loads	288	288	285	244	322	257	326	297	302	310	310	256	318	298
Total Non-Firm Regional Loads	288	288	285	244	322	257	326	297	302	310	310	256	318	298
Total Loads	31991	31991	30151	31580	35312	38533	39803	38364	34969	32729	32729	31756	31836	32752
Hydro Resources														
Regulated Hydro	26883	26797	26200	25447	26495	27352	27302	27132	26777	25680	26413	26494	27548	27448
Independent Hydro	1864	1846	1834	1820	1780	1766	1714	1827	1919	1968	1993	2071	2069	1924
Sustained Peaking Adjustment	-100	-100	-1293	0	0	0	-4654	-4100	-2809	-1980	-4116	-2625	-1500	-700
Total Hydro Resources	28647	28543	26741	27267	28275	29118	24361	24858	25887	25668	24290	25941	28118	28672
Other Resources														
Small Thermal & Misc.	0	0	0	0	2.8	2.8	2.8	2.8	0	0	0	0	0	0
Combustion Turbines	4240	4240	4247	3769	4267	4274	4274	4271	4267	3241	3241	2552	3627	4240
Renewables	84	84	84	85	86	88	89	88	88	87	87	84	84	84
Cogeneration	2209	2209	2213	2215	2222	2206	2227	2224	1591	2216	2216	1179	2211	2189
Imports	729	729	645	597	598	675	734	689	692	580	580	516	754	837
Large Thermal	6992	6992	6992	6992	6992	6992	6992	6992	6864	6992	6858	2917	5312	6992
Non-Utility Generation	1420	1420	1333	1231	1186	1172	1152	1181	1213	1365	1365	971	1495	1471
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	15674	15674	15514	14888	15353	15410	15470	15448	14716	14481	14347	8218	13482	15812
Total Resources	44321	44217	42255	42155	43628	44528	39831	40306	40602	40149	38637	34159	41600	44484
Reserves & Maintenance														
Hydro Reserves	-1437	-1432	-1402	-1363	-1414	-1456	-1451	-1448	-1435	-1382	-1420	-1428	-1481	-1469
Small Thermal & Misc. Reserves	-398	-398	-394	-365	-388	-387	-387	-388	-358	-345	-345	-239	-371	-399
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	-1049	-1049	-1049	-1049	-1049	-1049	-1049	-1049	-1030	-1049	-1029	-438	-797	-1049
Regional Hydro Maintenance	-4595	-4032	-3787	-3208	-2935	-2037	-1561	-2286	-2626	-2751	-2483	-2360	-2202	-3720
Spinning Reserves	-830	-841	-789	-820	-858	-907	-802	-797	-792	-781	-764	-702	-826	-853
Regional Transmission Losses	-1206	-1222	-1167	-1184	-1239	-1296	-1158	-1150	-1151	-1134	-1092	-971	-1203	-1239
Total Reserves, Maintenance & Losses	-9515	-8973	-8588	-7990	-7882	-7132	-6408	-7118	-7392	-7442	-7133	-6138	-6879	-8729
Total Net Resources	34806	35243	33668	34165	35746	37396	33423	33188	33211	32707	31504	28021	34721	35755
Surplus/Deficits														
Firm Surplus/Deficit	3103	3541	3802	2829	756	-880	-6054	-4879	-1457	289	-914	-3479	3203	3301
Total Surplus/Deficit	2815	3252	3517	2585	434	-1137	-6380	-5176	-1759	-22	-1225	-3735	2885	3003

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