

Section 8
Monthly OY 2004 – 2013
Average Energy in Megawatts

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Table A-1
Total Retail Loads
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resources Study
2003 - 2004 Operating Year
2002 White Book**

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	113	113	111	115	132	145	147	139	131	122	122	118	120	121	126
2 Total Federal Entities	113	113	111	115	132	145	147	139	131	122	122	118	120	121	126
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	278	278	193	97	24	15	15	13	37	214	214	271	288	329	148
4 Total U.S. Bureau of Reclamation	278	278	193	97	24	15	15	13	37	214	214	271	288	329	148
-Direct Service Industry-															
5 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
6 Total Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
-Generating Public Entities-															
7 Generating Public Entities	4327	4327	4301	4779	5469	5985	6168	5823	5449	5009	4995	4631	4474	4441	5071
8 Total Generating Public Entities	4327	4327	4301	4779	5469	5985	6168	5823	5449	5009	4995	4631	4474	4441	5071
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3270	3270	2998	3027	3436	3853	3947	3743	3318	3251	3242	3153	3287	3382	3388
10 Total Non-Generating Public Entities	3270	3270	2998	3027	3436	3853	3947	3743	3318	3251	3242	3153	3287	3382	3388
-Investor-Owned Entities-															
11 Investor-Owned Entities	10630	10630	9719	9883	10846	11916	12093	11717	10733	10119	10119	9885	10384	10995	10743
12 Total Investor-Owned Entities	10630	10630	9719	9883	10846	11916	12093	11717	10733	10119	10119	9885	10384	10995	10743
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	392	392	304	212	156	160	162	152	168	337	336	389	408	450	274
16 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
17 Public Entities	7597	7597	7300	7806	8904	9838	10115	9566	8767	8260	8237	7784	7762	7823	8459
18 Investor-Owned Entities	10630	10630	9719	9883	10846	11916	12093	11717	10733	10119	10119	9885	10384	10995	10743
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	19591	19591	18294	18873	20878	22886	23342	22407	20639	19687	19664	19031	19525	20240	20449
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
22 Total Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
- Total Regional Medium Loads-															
29 Federal Entities	392	392	304	212	156	160	162	152	168	337	336	389	408	450	274
30 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
31 Public Entities	7597	7597	7300	7806	8904	9838	10115	9566	8767	8260	8237	7784	7762	7823	8459
32 Investor-Owned Entities	10783	10783	9877	10032	11009	12066	12240	11875	10856	10284	10284	10026	10534	11144	10894
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	19744	19744	18452	19023	21041	23037	23489	22565	20763	19852	19829	19172	19675	20389	20599

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resources Study
2007 - 2008 Operating Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	121	121	118	118	134	148	150	142	133	124	124	120	122	124	129
2 Total Federal Entities	121	121	118	118	134	148	150	142	133	124	124	120	122	124	129
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	278	278	193	97	24	15	15	13	37	214	214	271	288	329	148
4 Total U.S. Bureau of Reclamation	278	278	193	97	24	15	15	13	37	214	214	271	288	329	148
-Direct Service Industry-															
5 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
6 Total Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
-Generating Public Entities-															
7 Generating Public Entities	4697	4697	4688	5132	5899	6453	6580	6227	5814	5349	5335	4944	4775	4735	5441
8 Total Generating Public Entities	4697	4697	4688	5132	5899	6453	6580	6227	5814	5349	5335	4944	4775	4735	5441
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3531	3531	3232	3241	3670	4116	4218	4003	3540	3461	3452	3356	3496	3586	3621
10 Total Non-Generating Public Entities	3531	3531	3232	3241	3670	4116	4218	4003	3540	3461	3452	3356	3496	3586	3621
-Investor-Owned Entities-															
11 Investor-Owned Entities	11409	11409	10477	10632	11624	12824	13118	12591	11671	11009	11009	10767	11286	11947	11613
12 Total Investor-Owned Entities	11409	11409	10477	10632	11624	12824	13118	12591	11671	11009	11009	10767	11286	11947	11613
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	399	399	311	215	159	163	165	155	170	339	339	392	410	452	277
16 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
17 Public Entities	8228	8228	7920	8373	9569	10570	10798	10230	9354	8810	8786	8300	8272	8321	9061
18 Investor-Owned Entities	11409	11409	10477	10632	11624	12824	13118	12591	11671	11009	11009	10767	11286	11947	11613
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	21008	21008	19680	20192	22324	24529	25053	23948	22167	21130	21106	20431	20940	21693	21924
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
22 Total Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
- Total Regional Medium Loads-															
29 Federal Entities	399	399	311	215	159	163	165	155	170	339	339	392	410	452	277
30 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
31 Public Entities	8228	8228	7920	8373	9569	10570	10798	10230	9354	8810	8786	8300	8272	8321	9061
32 Investor-Owned Entities	11562	11562	10635	10782	11787	12974	13264	12749	11795	11174	11174	10908	11437	12096	11764
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	21161	21161	19838	20342	22487	24679	25199	24107	22291	21295	21271	20572	21090	21842	22074

**Table A-1: Pacific Northwest Total Retail Loads
PNW Loads and Resources Study
2012 - 2013 Operating Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
-Federal Entities-															
1 Federal Entities	124	124	120	120	137	150	152	145	135	126	126	122	124	126	132
2 Total Federal Entities	124	124	120	120	137	150	152	145	135	126	126	122	124	126	132
-U.S. Bureau of Reclamation-															
3 U.S. Bureau of Reclamation	278	278	193	97	24	15	15	13	37	214	214	271	288	329	148
4 Total U.S. Bureau of Reclamation	278	278	193	97	24	15	15	13	37	214	214	271	288	329	148
-Direct Service Industry-															
5 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
6 Total Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
-Generating Public Entities-															
7 Generating Public Entities	5050	5050	5041	5571	6343	7010	6995	6896	6179	5661	5646	5280	5123	5065	5850
8 Total Generating Public Entities	5050	5050	5041	5571	6343	7010	6995	6896	6179	5661	5646	5280	5123	5065	5850
-Non-Generating Public Entities-															
9 Non-Generating Public Entities	3820	3820	3504	3499	3959	4476	4527	4399	3816	3705	3695	3614	3782	3888	3915
10 Total Non-Generating Public Entities	3820	3820	3504	3499	3959	4476	4527	4399	3816	3705	3695	3614	3782	3888	3915
-Investor-Owned Entities-															
11 Investor-Owned Entities	12597	12597	11618	11786	12805	14014	14369	13770	12835	12031	12031	11783	12322	13069	12750
12 Total Investor-Owned Entities	12597	12597	11618	11786	12805	14014	14369	13770	12835	12031	12031	11783	12322	13069	12750
-Other Firm Loads-															
13 Other PNW Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
14 Total Other Firm Loads	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- Total Regional Firm Loads-															
15 Federal Entities	402	402	312	217	161	165	167	158	172	341	340	394	412	455	280
16 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
17 Public Entities	8870	8870	8545	9070	10301	11485	11522	11295	9995	9366	9341	8894	8904	8952	9766
18 Investor-Owned Entities	12597	12597	11618	11786	12805	14014	14369	13770	12835	12031	12031	11783	12322	13069	12750
19 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	22841	22841	21447	22045	24240	26637	27030	26195	23974	22710	22685	22042	22610	23448	23767
Non-Firm Loads															
-Investor-Owned Entities-															
21 Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
22 Total Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
- Total Regional Non-Firm Loads-															
23 Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Regional Non-Firm Loads	153	153	158	149	163	150	147	158	124	165	165	141	150	149	151
- Total Regional Medium Loads-															
29 Federal Entities	402	402	312	217	161	165	167	158	172	341	340	394	412	455	280
30 Direct Service Industry	792	792	792	792	792	792	792	792	792	792	792	792	792	792	792
31 Public Entities	8870	8870	8545	9070	10301	11485	11522	11295	9995	9366	9341	8894	8904	8952	9766
32 Investor-Owned Entities	12750	12750	11776	11935	12968	14164	14516	13928	12959	12196	12196	11924	12472	13218	12900
33 Other Entities	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
34 Total Regional Medium Loads	22994	22994	21605	22194	24403	26787	27176	26354	24098	22875	22850	22184	22760	23597	23918

Table A-2
Exports
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-2: Regional Exports
PNW Loads and Resources Study
2003 - 2004 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Exports East of Continental Divide -															
1 AVWP to OEOR PwrS	7	7	7	7	1	1	1	1	1	1	1	1	1	1	2.5
2 BPA to Other Entities	64	64	58	63	79	93	92	88	81	75	74	63	67	74	75
3 Total Exports to ECD	71	71	65	70	80	94	93	89	82	76	76	64	68	75	77
-Exports to Pacific Southwest-															
4 BPA to ANHM PwrX	20	20	20	0	0	0	0	0	0	0	0	0	0	20	5
5 BPA to AZUS CapS	2.7	2.7	2.7	0	0	0	0	0	0	0	0	0	0	0	0.4
6 BPA to AZUS PwrS	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0.2
7 BPA to BANN CapS	0.9	0.9	0.9	0	0	0	0	0	0	0	0	0	0	0	0.1
8 BPA to BANN PwrS	0.4	0.4	0.4	0	0	0	0	0	0	0	0	0	0	0	0.1
9 BPA to BART PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
10 BPA to BURB C/N/X	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4	5.4	5.4	3.8
11 BPA to CLTN CapS	2.7	2.7	2.7	0	0	0	0	0	0	0	0	0	0	0	0.4
12 BPA to CLTN PwrX	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0.2
13 BPA to GLEN C/N/X	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	6.0	4.2
14 BPA to MSR PwrS	94	94	91	73	58	76	75	74	45	46	46	44	112	112	75
15 BPA to Other Entities	342	337	297	250	250	250	175	175	175	175	175	175	175	175	218
16 BPA to PASA C/N/X	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	2.5
17 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	4.5	4.5	1.1
18 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
19 BPA to RVSD CapS	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
20 BPA to RVSD C/N/X	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
21 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
22 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
23 IPC to AZUS PwrS	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0	1.2
24 IPC to BANN PwrS	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	0.4
25 IPC to CLTN PwrS	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0	1.2
26 PGE to BURB PwrS	14	14	14	0	0	0	0	0	0	0	0	0	0	0	2.4
27 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
28 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
29 PPL to CDWR PwrS	78	78	76	69	67	71	74	72	67	62	62	61	66	79	70
30 PPL to SCE PwrS	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
31 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
32 PSE to PGS S/Pwr/X	141	141	141	0	0	0	0	0	0	0	0	0	141	141	47
33 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
34 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
35 SHPD to SMUD PwrS	36	36	36	26	26	26	26	26	26	26	26	26	33	33	29
36 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
37 BPA NW-SW Intertie Losses	16	16	15	12	11	11	9.1	9.1	8.2	8.3	8.3	9.2	11	12	11
38 Total Exports To PSW	1072	1066	1032	729	683	706	631	628	593	588	588	570	884	901	751
-Exports to Inland Southwest-															
39 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
40 CIDF to UPLC PwrS	14	14	0	0	0	0	0	0	0	0	0	0	17	18	4.2
41 IPC to UAMP PwrS	58	58	58	27	23	39	0	0	0	0	0	0	0	0	17
42 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
43 PPL to WAPA PwrS	116	116	116	116	116	116	108	108	108	108	108	108	108	108	111
44 Total Exports To ISW	299	299	285	224	220	236	189	189	189	219	219	219	236	237	228
-Exports to Canada-															
45 BPA to BCHP CanEnt	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537
46 Total Exports To Canada	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537
-Exports to Other Entities-															
47 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
48 Federal Entities	1234	1228	1179	1049	1035	1068	988	983	946	971	971	990	1067	1082	1049
49 Public Entities	110	110	106	81	66	66	66	66	66	66	66	47	120	122	82
50 Investor-Owned Entities	600	600	598	396	384	403	359	357	352	347	347	318	501	511	427
51 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
52 Total Exports.	1980	1974	1919	1561	1521	1573	1449	1443	1401	1420	1420	1390	1725	1751	1594

**Table A-2: Regional Exports
PNW Loads and Resources Study
2007 - 2008 Operating Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Exports East of Continental Divide -															
1 AVWP to OEOB PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 BPA to Other Entities	76	76	69	74	93	110	107	103	95	88	87	74	78	86	88
3 Total Exports to ECD	77	77	70	75	94	110	108	104	96	88	88	75	79	87	89
-Exports to Pacific Southwest-															
4 BPA to BART PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA to BURB C/N/X	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	0	0	0	0	2.5
6 BPA to GLEN C/N/X	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	0	0	0	0	2.7
7 BPA to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA to PASA C/N/X	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	0	0	0	0	1.6
9 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
10 BPA to PASA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
11 BPA to RVSD CapS	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
12 BPA to RVSD C/N/X	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
13 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
14 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
15 PGE to GLEN PwrS	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
16 PGE to GLEN S/Pwr/X	8.9	8.9	8.9	0	0	0	0	0	0	0	0	0	8.9	8.9	3.0
17 PPL to SCE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
19 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
20 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
21 SHPD to SMUD PwrS	36	36	36	0	0	0	0	0	0	0	0	0	0	0	6
22 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
23 BPA NW-SW Intertie Losses	1.1	1.1	1.1	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.2	1	1	0.7	0.7
24 Total Exports To PSW	262	262	272	204	175	175	175	175	175	175	167	147	234	221	199
-Exports to Inland Southwest-															
25 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
26 CIDF to UPLC PwrS	14	14	0	0	0	0	0	0	0	0	0	0	17	18	4.2
27 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
28 Total Exports To ISW	125	125	111	81	81	81	81	81	81	111	111	111	128	129	100
-Exports to Canada-															
29 BPA to BCHP CanEnt	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529
30 Total Exports To Canada	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529
-Exports to Other Entities-															
31 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
32 Federal Entities	718	718	711	678	682	699	697	692	684	707	699	713	718	713	701
33 Public Entities	110	110	106	55	40	40	40	40	40	40	40	21	87	89	59
34 Investor-Owned Entities	129	129	129	120	120	120	120	120	120	120	120	92	129	129	121
35 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
36 Total Exports.	993	993	982	889	879	895	893	889	881	903	895	862	970	967	917

**Table A-2: Regional Exports
PNW Loads and Resources Study
2012 - 2013 Operating Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Exports East of Continental Divide -															
1 AVWP to OEOR PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 BPA to Other Entities	92	92	84	90	113	133	130	125	115	106	106	90	95	105	107
3 Total Exports to ECD	93	93	85	91	114	134	131	126	116	107	107	90	96	106	108
-Exports to Pacific Southwest-															
4 BPA to BART PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA to PASA C/N/X	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
10 BPA to PASA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	2.2	2.2	0	0.4
11 BPA to RVSD C/N/X	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
12 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	26	26	0	4.3
13 PGE to GLEN PwrS	20	20	20	0	0	0	0	0	0	0	0	0	0	0	3.3
14 PGE to GLEN S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 PPL to SMUD PwrS	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
16 SCL to NCPA S/Pwr/X	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
17 SDGE to SDGE PwrS	59	59	59	59	59	59	59	59	59	59	59	31	59	59	57
18 SHPD to SMUD PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 TID to TID PwrS	40	40	40	40	40	40	40	40	40	40	40	21	40	40	39
20 BPA NW-SW Intertie Losses	0.5	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8	0.8	0.5	0.3
21 Total Exports To PSW	194	194	205	165	142	142	142	142	142	142	142	120	198	185	160
-Exports to Inland Southwest-															
22 BPA to SPP PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
23 CIDF to UPLC PwrS	14	14	0	0	0	0	0	0	0	0	0	0	17	18	4.2
24 LVFBR to WAPA PwrS	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
25 Total Exports To ISW	125	125	111	81	81	81	81	81	81	111	111	111	128	129	100
-Exports to Canada-															
26 BPA to BCHP CanEnt	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524
27 Total Exports To Canada	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524
-Exports to Other Entities-															
28 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Exports-															
29 Federal Entities	707	707	699	670	685	705	702	697	687	708	708	717	723	719	702
30 Public Entities	74	74	70	55	40	40	40	40	40	40	40	21	87	89	53
31 Investor-Owned Entities	120	120	120	100	100	100	100	100	100	100	100	72	100	100	101
32 Other Entities	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
33 Total Exports.	937	937	925	861	861	881	878	873	863	884	884	845	946	944	892

Table A-3
Regulated Hydro Projects
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resources Study
2003 - 2004 Operating Year
1937 Water Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	18	27	37	18	18	16	14	17	18	18	28	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	170	136	396	462	518	543	455	446	462	289	133	132	181	130	341
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1728	1296	803	1037	1264	1243	945	890	884	890	896	846	1117	1300	1061
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	438	203	51	51	51	51	51	50	50	51	53	56	284	440	126
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3211	2360	1464	1942	2341	2236	1724	1646	1569	1492	1466	1448	2063	2445	1929
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	91	80	76	85	89	90	92	92	88	67	28	29	30	118	77
19 Ice Harbor	94	65	127	145	101	108	130	111	190	131	137	233	175	126	138
20 John Day	911	688	660	794	914	900	734	710	814	775	746	790	902	842	802
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	519	353	113	153	88	298	81	79	78	77	77	172	292	143	167
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	235	174	138	145	102	106	132	97	183	258	312	528	396	295	218
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	240	178	145	143	102	108	134	98	185	252	320	532	405	303	221
28 Lower Monumental	237	175	132	147	101	108	131	111	194	275	329	535	409	304	223
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 Mc Nary	722	686	454	545	600	606	505	475	539	405	266	292	415	744	518
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	609	457	539	622	714	713	592	577	653	571	480	503	598	561	594
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13458	10443	8439	10385	11572	11738	9942	8603	9783	9568	9381	9841	12987	12457	10598
-Total Regulated Hydro w/Enc.-															
57 Federal System	9230	6871	5125	6307	7004	7127	5720	5396	5906	5551	5261	6124	7311	7791	6439
58 Public Entities	1540	1223	1337	1725	1945	1916	1736	1317	1474	1384	1621	1311	2485	1907	1670
59 Investor-Owned Entities	2456	2157	1840	2192	2436	2507	2327	1741	2254	2486	2340	2274	2998	2574	2322
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13458	10443	8439	10385	11572	11738	9942	8603	9783	9568	9381	9841	12987	12457	10598

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	524	549	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1769	1327	823	1064	1297	1277	970	913	908	913	920	867	1147	1332	1089
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	56	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3281	2414	1500	1989	2399	2293	1767	1685	1605	1527	1502	1484	2116	2503	1975
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	90	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	742	718	823	785	722	757	899	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	91	299	81	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	518	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	292	216
28 Lower Monumental	229	170	130	144	99	106	129	109	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 Mc Nary	739	700	464	557	613	619	517	485	550	418	274	300	426	761	530
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	615	461	545	629	722	721	599	584	661	579	487	509	605	567	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13587	10544	8518	10484	11698	11863	10034	8690	9862	9650	9416	9853	13068	12560	10686
-Total Regulated Hydro w/Enc.-															
57 Federal System	9358	6971	5203	6407	7131	7252	5812	5483	5984	5633	5296	6136	7392	7894	6527
58 Public Entities	1721	1364	1493	1928	2188	2155	1922	1492	1649	1417	1648	1336	2586	2039	1822
59 Investor-Owned Entities	2275	2016	1685	1990	2194	2267	2141	1567	2080	2454	2313	2248	2897	2441	2170
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13587	10544	8518	10484	11698	11863	10034	8690	9862	9650	9416	9853	13068	12560	10686

**Table A-3: Regional Regulated Hydro Projects
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Regulated Hydro Projects-															
1 Albeni Falls	23	19	27	37	18	18	16	14	17	18	18	29	45	38	25
2 Alder	14	10	11	12	6	25	45	21	25	30	7.1	23	50	8	21
3 Bonneville	172	138	401	468	525	550	460	451	465	295	134	134	183	132	345
4 Boundary	190	150	238	503	266	263	223	186	248	281	417	530	606	399	332
5 Box Canyon	31	25	37	69	41	41	35	30	38	44	60	72	74	55	48
6 Brownlee	232	259	238	240	155	158	252	146	258	324	324	305	192	312	235
7 Cabinet Gorge	51	39	41	65	74	72	66	50	64	52	85	176	188	112	85
8 Chelan	31	23	20	55	55	55	54	54	54	52	32	9.9	51	57	44
9 Chief Joseph	1793	1346	836	1080	1317	1297	985	927	922	928	934	880	1165	1352	1105
10 Cushman 1	3.3	2.3	19	1.8	27	25	29	20	1.1	1.3	24	1.3	28	1.3	14
11 Cushman 2	2.4	0.7	30	0.1	49	50	66	55	0.4	0.2	59	0.1	63	0	29
12 Diablo	74	56	76	35	106	102	1.5	15	72	91	71	74	172	154	79
13 Dworshak	443	205	52	52	52	51	51	51	51	52	53	57	287	445	127
14 Faraday	8.1	7.5	8.2	8	6.2	16	8.9	17	31	43	42	43	39	14	20
15 Gorge	86	68	87	43	118	118	2.7	19	86	109	86	92	182	168	91
16 Grand Coulee	3283	2415	1501	1990	2400	2294	1768	1686	1605	1527	1503	1484	2117	2504	1976
17 Hells Canyon	193	218	202	208	133	127	198	114	194	244	245	239	152	246	189
18 Hungry Horse	92	81	77	86	91	91	93	93	89	67	28	29	31	120	78
19 Ice Harbor	93	64	124	142	99	105	127	109	186	130	136	232	173	124	136
20 John Day	920	695	668	803	925	911	743	718	823	785	722	758	900	851	805
21 La Grande	21	15	15	18	8.3	39	63	44	56	62	12	37	63	12	34
22 Libby	522	357	114	155	92	299	82	80	78	78	78	173	293	149	169
23 Little Falls	9.3	9.2	15	14	13	21	8	11	24	31	30	30	34	14	19
24 Little Goose	227	169	136	142	101	104	129	95	179	254	307	519	388	285	213
25 Long Lake	22	22	34	34	30	46	18	24	51	69	72	72	72	33	42
26 Lower Baker	29	23	22	24	30	60	56	11	28	39	37	1.3	67	59	35
27 Lower Granite	233	173	142	140	101	106	131	96	182	248	315	523	398	293	216
28 Lower Monumental	229	170	130	145	99	106	129	110	191	270	323	526	402	294	219
29 Mayfield	28	25	41	55	55	55	172	85	70	70	171	8.4	82	47	68
30 Mc Nary	818	766	512	613	676	685	570	535	606	478	316	340	478	842	587
31 Merwin	18	15	16	28	67	83	103	35	66	109	92	13	71	24	52
32 Monroe Street	5.5	5.8	12	12	9.9	15	5.1	6.7	15	15	15	15	15	11	11
33 Mossyrock	56	48	74	91	92	68	286	75	52	55	207	0	129	85	95
34 Nine Mile	5.6	5.7	10	10	9.3	11	4.6	7	15	23	23	22	24	10	13
35 North Fork	9	8.4	9.1	8.9	7	18	9.9	18	35	54	47	54	43	15	23
36 Noxon	69	57	58	99	114	110	101	72	96	86	116	286	308	158	131
37 Oak Grove	21	20	24	28	17	20	17	18	24	34	34	34	34	25	25
38 Oxbow	101	114	106	109	69	65	103	58	100	125	125	120	75	128	97
39 Pelton	36	35	35	31	31	34	38	35	35	33	54	36	39	36	36
40 Post Falls	2.2	2.5	6	6.5	5.4	7.6	2.9	3.6	10	15	14	14	15	5.2	7.8
41 Priest Rapids	385	301	347	452	541	533	416	389	389	55	55	55	212	317	337
42 River Mill	4.6	4.3	4.7	4.6	3.6	9.2	5.1	9.5	18	23	23	23	22	7.7	11
43 Rock Island PH#1	174	187	144	171	185	184	163	156	156	159	171	175	189	193	172
44 Rock Island PH#2	197	146	101	134	162	159	122	113	113	96	42	27	120	104	116
45 Rocky Reach	827	660	420	547	656	646	504	474	475	476	416	394	642	627	548
46 Ross	52	40	70	33	121	107	0	17	71	90	64	61	236	151	83
47 Round Butte	91	87	88	76	76	85	94	85	86	80	138	89	100	89	89
48 Swift 1	31	27	24	34	131	74	72	26	45	154	14	19	152	47	61
49 Swift 2	8.6	7.3	6.8	9.8	42	27	32	12	20	69	5.9	7	46	13	22
50 The Dalles	616	462	545	629	723	722	599	584	661	579	487	509	605	568	601
51 Upper Baker	29	23	20	21	29	47	31	8.9	22	34	32	0.3	103	60	34
52 Upper Falls	4.9	5.2	9.8	9.8	8.8	10	4.6	5.8	10	9.5	8.6	8.3	9.3	9.6	8.4
53 Wanapum	484	351	290	398	497	488	359	333	333	229	229	229	395	375	362
54 Wells	543	430	269	346	420	412	316	296	294	297	275	267	407	405	350
55 White	27	20	14	10	5.9	34	28	18	36	47	53	53	64	48	32
56 Yale	23	20	22	24	94	87	107	32	60	106	91	0	112	30	57
Total Regulated Hydro w/Enc.	13693	10630	8580	10559	11784	11951	10105	8755	9934	9727	9474	9908	13141	12663	10762
-Total Regulated Hydro w/Enc.-															
57 Federal System	9465	7058	5265	6481	7216	7340	5883	5549	6056	5710	5354	6191	7465	7997	6603
58 Public Entities	1994	1562	1656	2152	2468	2431	2125	1679	1836	1546	1777	1465	2808	2251	2026
59 Investor-Owned Entities	2002	1818	1521	1765	1913	1992	1938	1379	1892	2324	2184	2119	2674	2230	1966
60 Other Entities	232	192	137	161	186	188	160	149	149	147	159	132	193	185	167
61 Total Regulated Hydro w/Enc.	13693	10630	8580	10559	11784	11951	10105	8755	9934	9727	9474	9908	13141	12663	10762

Table A-4
Independent Hydro Projects
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2003 - 2004 Operating Year
1937 Water Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	25	27	11	38	27	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Black Eagle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
8 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
9 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
10 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
11 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
12 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
13 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	1.1	4.5
14 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
16 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
17 Cochrane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
19 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
20 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
21 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
22 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
23 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
24 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
25 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
26 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
27 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
28 Hauser	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Hebgen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
31 Holter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
33 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
34 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
35 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
36 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
37 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
38 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
39 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
40 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
41 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
42 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
43 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
44 Madison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
46 Mill Creek	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
47 Milltown/Flint Creek	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.7	0	0.3
48 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
49 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
50 Morony	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
52 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
53 Mystic Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
55 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
56 Palisades	131	131	119	55	15	15	20	23	27	21	38	95	131	131	66
57 Rainbow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
60 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
61 Ryan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
63 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
64 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
66 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
67 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
68 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
69 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
70 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
71 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
72 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
73 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
74 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2003 - 2004 Operating Year
1937 Water Year
2002 White Book**

Continued

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
75 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
76 WALTERVILLE	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
77 WYNOCHEE	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
78 YELM	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1048	1075	1010	982	902	969	783	797	944	1212	1266	1553	1603	1160	1084
-Total Independent Hydro W/Enc.-															
79 Federal System	437	435	370	385	305	236	176	196	274	433	515	710	746	451	397
80 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
81 Investor-Owned Entities	484	502	519	470	471	536	472	481	509	576	550	610	601	527	521
82 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Total Independent Hydro w/Enc.	1048	1075	1010	982	902	969	783	797	944	1212	1266	1553	1603	1160	1084

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	25	27	11	39	28	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Black Eagle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
8 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
9 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
10 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
11 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
12 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
13 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	1.1	4.5
14 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
16 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
17 Cochrane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
19 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
20 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
21 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
22 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
23 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
24 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
25 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
26 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
27 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
28 Hauser	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Hebgen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
31 Holter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
33 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
34 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
35 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
36 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
37 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
38 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
39 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
40 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
41 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
42 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
43 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
44 Madison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
46 Mill Creek	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
47 Milltown/Flint Creek	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.6	0	0.3
48 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
49 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
50 Morony	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
52 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
53 Mystic Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
55 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
56 Palisades	132	132	119	55	15	15	20	23	27	21	38	95	132	132	66
57 Rainbow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
60 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
61 Ryan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
63 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
64 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
66 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
67 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
68 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
69 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
70 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
71 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
72 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
73 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
74 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2007 - 2008 Operating Year
1937 Water Year
2002 White Book**

Continued

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
75 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
76 WALTERVILLE	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
77 WYNOCHEE	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
78 YELM	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085
-Total Independent Hydro W/Enc.-															
79 Federal System	438	436	371	386	306	237	176	197	275	434	516	712	748	452	398
80 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
81 Investor-Owned Entities	484	502	519	470	471	536	472	481	509	576	551	610	601	527	521
82 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	969	783	798	945	1213	1267	1555	1605	1161	1085

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Independent Hydro Projects-															
1 American Falls	55	55	35	13	0	0	0	0	5.8	20	20	67	70	75	28
2 Anderson Ranch	23	18	11	4.3	5.4	11	16	16	5.1	26	27	11	39	28	16
3 Big Cliff	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11
4 Big Creek	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0.2
5 Black Canyon	10	10	7.9	9	5.9	7.1	8.8	4.8	7.9	10	10	10	8.1	7.5	8.1
6 Black Eagle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Bliss	41	41	46	44	46	46	43	40	40	39	39	38	38	37	42
8 Blue River	3.4	3.4	2.2	2.2	3.2	3.6	3.4	2.1	1.9	2.5	2.5	2.9	2.4	2.6	2.7
9 Bonneville Fishway	24	24	24	24	12	12	12	24	24	24	24	24	24	24	21
10 Bull Run	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10
11 Calispel Creek	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0.3
12 Carmen-Smith	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
13 Cascade	13	13	10	2.4	2.2	3.2	5.6	1.8	1.1	1.1	1.1	1.1	1.2	1.1	4.5
14 Cedar Falls & Newhalem	2	2	2.8	7.8	11	18	9.6	6.6	8.6	18	18	25	30	2.2	12
15 Chandler	5.2	5.2	4.1	6.7	12	13	9.5	9.3	13	10	10	8.4	8.1	4.6	8.6
16 CJ Strike	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50
17 Cochrane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Condit Sm Plts	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26
19 Cougar	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16
20 Cowlitz Falls	10	10	7.9	6.2	3.1	23	10	14	33	48	48	64	66	29	26
21 Detroit	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41
22 Dexter	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9.3
23 Felt	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
24 Foster	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12
25 Gem State Hydro	15	15	11	10	11	12	12	11	15	19	19	18	17	19	14
26 Green Peter	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28
27 Green Springs - USBR	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
28 Hauser	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Hebgen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Hills Creek	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18
31 Holter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Hood Street	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.6
33 Idaho Falls - City Plant	6	6	6	6	6	5	6	5	5	5	5	7	7	7	5.9
34 Idaho Falls - Lower Plant	6	6	7	7	6	5	6	6	5	6	6	7	7	7	6.3
35 Idaho Falls - Upper Plant	7	7	7	7	6	5	6	6	5	6	6	7	7	7	6.3
36 Island Park	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
37 Jackson	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43
38 Klamath	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35
39 Lake Creek	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
40 Leaburg	7.5	7.5	5.5	7.5	7.5	7.1	4	13	13	13	13	13	13	10	9.5
41 Lookout Point	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35
42 Lost Creek	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30
43 Lower Salmon	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26
44 Madison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 McNary Fishway	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
46 Mill Creek	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
47 Milltown/Flint Creek	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.3	0.3	0.4	0.8	0	0.4
48 Milner	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2
49 Minidoka	31	31	29	12	3.1	9	2.8	2.4	2.2	14	14	31	31	31	16
50 Morony	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Morse Creek	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
52 Moyie Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
53 Mystic Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 North Umpqua	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
55 Packwood	6.1	16	5.3	3.7	2.7	5.9	4	3.7	4.8	8.6	8.6	19	30	20	9.9
56 Palisades	132	132	120	55	15	15	20	23	27	21	38	95	132	132	66
57 Rainbow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reader Gulch	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59 Rogue	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
60 Roza	13	13	0	3.6	0	5	4	4.3	13	13	13	13	13	13	7.9
61 Ryan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Shoshone Falls	10	10	12	8.4	12	12	12	12	7.4	6.5	6.5	5.7	5.4	6.3	9.2
63 Snoq Elect & Nooksack	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
64 Soda Creek	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65 South Fork Tolt	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6.1
66 Spring Plants	26	28	28	30	31	31	30	30	27	28	28	27	26	26	28
67 Stone Creek	4	5.8	10	10	10	1.8	7.1	0.6	4.3	5.9	4.7	6.7	6	10	6.5
68 Strawberry Creek	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
69 Swan Falls	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
70 The Dalles Fishway	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
71 Trail Bridge	3.8	3.8	3.5	3.4	3.2	3.3	3	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.5
72 TW Sullivan	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
73 Twin Falls	5	5	8	4	11	14	10	8	0	0	0	0	0	7	5.6
74 Upper Salmon 1 & 2	18	18	19	19	19	19	19	18	16	16	16	16	16	16	18

**Table A-4: Regional Independent Hydro Projects
PNW Loads and Resources Study
2012 - 2013 Operating Year
1937 Water Year
2002 White Book**

Continued

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
75 Upper Salmon 3 & 4	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
76 WALTERVILLE	5.4	5.8	3.8	4.6	4	5	3.1	7.2	8	6.3	6.3	9.5	9.5	7.7	6.2
77 WYNOCHEE	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
78 YELM	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9.4
Total Independent Hydro w/Enc.	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085
-Total Independent Hydro W/Enc.-															
79 Federal System	438	436	371	386	306	237	176	197	275	435	516	713	748	452	398
80 Public Entities	127	138	121	127	126	196	135	120	161	202	201	232	256	182	166
81 Investor-Owned Entities	484	502	519	470	471	536	472	482	509	577	551	610	601	527	521
82 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Total Independent Hydro w/Enc.	1049	1076	1011	983	903	970	783	798	945	1213	1267	1555	1605	1161	1085

Table A-5
Imports
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-5: Regional Imports
PNW Loads and Resources Study
2003 - 2004 Operating Year
2002 White Book**

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 BEPC To NWE PwrS	0	0	0	0	84	84	84	84	84	84	84	0	0	0	42
2 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
3 Total Imports From ECD	13	13	42	108	245	299	273	229	201	174	174	0.1	18	34	136
-Imports From Pacific Southwest-															
4 ANHM To BPA PwrX	0	0	0	20	20	20	20	20	20	0	0	0	0	0	10
5 BURB To BPA XchgNrg	2.6	2.6	2.6	2.6	3.8	5	5	5	5	5	2.6	2.6	2.6	2.6	3.6
6 BURB To BPA PkRepl	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4	5.4	5.4	3.8
7 CLTN To BPA PwrX	0	0	0	0	3	3	3	3	0	0	0	0	0	0	1
8 GLEN To BPA XchgNrg	2.9	2.9	2.9	2.9	4.2	5.6	5.6	5.6	5.6	5.6	2.9	2.9	2.9	2.9	4
9 GLEN To BPA PkRepl	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	6.0	4.2
10 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
11 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
12 Other Entities To BPA	25	25	25	25	25	25	0	0	0	0	0	0	0	0	10
13 PASA To BPA XchgNrg	1.7	1.7	1.7	1.7	2.5	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	2.4
14 PASA To BPA PkRepl	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	3.6	2.5
15 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
16 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
17 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
18 PG&E To PSE S/Pwr/X	0	0	0	0	160	167	134	106	0	0	0	0	0	0	47
19 RVSD To BPA XchgNrg	0	0	0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0	0	0	0	3.1
20 RVSD To BPA PkRepl	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
21 RVSD To BPA PkRepl	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
22 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
23 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
24 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
25 SCE To PPL PwrS	0	0	0	21	42	42	42	42	21	0	0	0	0	0	18
26 Total Imports From PSW	69	69	73	112	343	360	303	274	133	66	28	25	29	44	151
-Imports From Inland Southwest-															
27 Other Entities To BPA	50	50	50	50	50	50	50	50	50	50	50	0	0	50	42
28 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
29 UPLC To UPLC PwrS	468	468	341	296	308	281	345	357	327	313	313	349	494	555	370
30 WAPA To GLEC ARP	3.3	3.3	3.1	2.9	3.3	3.7	3.8	3.9	3.3	3.3	3.3	2.8	3.1	3.3	3.3
31 Total Imports From ISW	596	596	469	394	407	380	443	456	426	442	442	427	572	684	475
-Imports From Canada-															
32 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
33 Other Entities To PGE	100	100	100	100	100	100	0	0	0	0	0	0	0	0	42
34 PWRX To BPA PkRepl	2.7	2.7	2.7	0	0	0	0	0	0	0	0	0	0	0	0.4
35 PWRX To BPA PkRepl	0.9	0.9	0.9	0	0	0	0	0	0	0	0	0	0	0	0.1
36 PWRX To BPA PkRepl	2.7	2.7	2.7	0	0	0	0	0	0	0	0	0	0	0	0.4
37 PWRX To EWEB PwrS	16	16	17	0	0	0	0	0	0	0	0	0	0	0	2.8
38 PWRX To VID ARP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Total Imports From Canada	140	140	136	118	135	145	58	67	59	27	27	26	36	24	81
-Imports From Other Entities-															
40 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
41 Federal System	213	213	247	294	365	422	371	327	294	275	237	100	122	203	268
42 Public Entities	37	37	33	21	62	79	92	101	93	37	37	28	39	27	54
43 Investor-Owned Entities	568	568	441	417	703	683	614	599	432	397	397	349	494	555	521
44 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 Total Imports.	819	819	720	732	1130	1184	1077	1027	819	709	671	478	655	786	843

**Table A-5: Regional Imports
PNW Loads and Resources Study
2007 - 2008 Operating Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Imports From East of Continental Divide-															
1 BEPC To NWE PwrS	0	0	0	0	84	84	84	84	84	84	84	0	0	0	42
2 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
3 Total Imports From ECD	13	13	42	108	245	299	273	229	201	174	174	0.1	18	34	136
-Imports From Pacific Southwest-															
4 BURB To BPA XchgNrg	2.6	2.6	2.6	2.6	3.8	5	5	5	5	5	0	0	0	0	2.9
5 BURB To BPA PkRepl	5.4	5.4	5.4	4	2.7	2.7	2.7	2.7	2.7	2.7	0	0	0	0	2.5
6 GLEN To BPA XchgNrg	2.9	2.9	2.9	2.9	4.2	5.6	5.6	5.6	5.6	5.6	0	0	0	0	3.2
7 GLEN To BPA PkRepl	6.0	6.0	6.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	0	0	0	0	2.7
8 GLEN To PGE S/Pwr/X	0	0	0	0	8.9	8.9	8.9	8.9	0	0	0	0	0	0	3.0
9 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
10 Other Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PASA To BPA XchgNrg	1.7	1.7	1.7	1.7	2.5	3.4	3.4	3.4	3.4	3.4	0	0	0	0	1.9
12 PASA To BPA PkRepl	3.6	3.6	3.6	2.7	1.8	1.8	1.8	1.8	1.8	1.8	0	0	0	0	1.6
13 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
14 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
15 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
16 RVSD To BPA XchgNrg	0	0	0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	0	0	0	0	3.1
17 RVSD To BPA PkRepl	0	0	0	0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.8	0	0	3.0
18 RVSD To BPA PkRepl	6.8	6.8	6.8	6.8	0	0	0	0	0	0	0	0	6.8	6.8	2.8
19 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
20 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
21 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
22 Total Imports From PSW	44	44	48	46	93	103	103	103	92	66	14	6.8	6.8	22	59
-Imports From Inland Southwest-															
23 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
24 UPLC To UPLC PwrS	487	487	355	307	318	288	353	366	334	320	320	358	510	577	381
25 Total Imports From ISW	562	562	430	352	363	333	398	411	379	395	395	432	585	652	441
-Imports From Canada-															
26 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
27 Total Imports From Canada	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
-Imports From Other Entities-															
28 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Total Imports-															
29 Federal System	132	132	165	199	267	324	298	254	224	225	172	82	100	131	198
30 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
31 Investor-Owned Entities	487	487	355	307	411	381	446	459	418	404	404	358	510	577	426
32 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Total Imports.	637	637	533	525	736	781	831	810	732	662	609	465	646	732	672

**Table A-5: Regional Imports
PNW Loads and Resources Study
2012 - 2013 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
<i>-Imports From East of Continental Divide-</i>															
1 PPL To BPA PwrS	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
2 Total Imports From ECD	13	13	42	108	161	215	189	145	117	90	90	0.1	18	34	94
<i>-Imports From Pacific Southwest-</i>															
3 BURB To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BURB To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 GLEN To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GLEN To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 NCPA To SCL S/Pwr/X	0	0	0	0	24	30	30	30	30	6.2	6.2	0	0	0	12
8 Other Entities To BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PASA To BPA XchgNrg	0	0	3.5	3.5	3.5	3.5	3.5	3.5	1.7	0	0	0	0	0	1.9
12 PASA To BPA S/N/X	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0	0.4
13 PASA To BPA PkRepl	4.5	4.5	4.5	0	0	0	0	0	0	0	0	0	0	4.5	1.1
14 RVSD To BPA XchgNrg	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7.3
15 RVSD To BPA S/Pwr/X	0	0	0	0	9.2	9.2	9.2	9.2	9.2	9.2	0	0	0	0	4.2
16 RVSD To BPA PkRepl	11	11	11	11	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0	0	11	4.9
17 Total Imports From PSW	15	15	19	15	56	62	62	62	60	34	8.9	0	0	15	32
<i>-Imports From Inland Southwest-</i>															
18 SPP To BPA PwrS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
19 UPLC To UPLC PwrS	505	505	368	318	326	295	358	358	339	323	323	363	522	593	389
20 Total Imports From ISW	580	580	442	363	371	340	403	403	384	398	398	438	597	668	449
<i>-Imports From Canada-</i>															
21 BCHP To SCL PwrS	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
22 Total Imports From Canada	18	18	13	18	35	45	58	67	59	27	27	26	36	24	36
<i>-Imports From Other Entities-</i>															
23 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>-Total Imports-</i>															
24 Federal System	103	103	136	168	238	292	266	222	192	193	167	75	93	124	174
25 Public Entities	18	18	13	18	58	75	88	97	89	34	34	26	36	24	48
26 Investor-Owned Entities	505	505	368	318	326	295	358	358	339	323	323	363	522	593	389
27 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Total Imports.	626	626	517	504	622	662	712	678	620	549	524	464	652	741	611

Table A-6
Small Thermal & Miscellaneous
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

Table A-7
Combustion Turbines
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2003 - 2004 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Franklin Generating Station	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	0	7.6	7.6	7
4 Frederickson CT	114	114	114	114	114	114	114	114	114	114	114	0	114	114	104
5 Grays Harbor Generating Station	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	0	7.6	7.6	7
6 Olympic View Generating Station	5.3	5.3	5.3	0	0	0	0	0	0	0	0	0	0	0	0.9
7 River Road	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
8 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
10 Total Public Entities	389	389	389	384	385	386	386	385	383	383	383	8	383	383	354
-Investor-Owned Entities-															
11 Beaver	435	435	299	145	337	467	467	464	460	455	455	448	442	435	404
12 Beaver 8	0	0	2	2	3	5	5	4	0	0	0	0	0	0	1.8
13 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
15 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16 Encogen	175	175	175	175	175	175	175	175	175	175	175	0	175	175	160
17 Fredonia 1&2	10	10	10	10	10	10	10	10	10	10	10	0	10	10	9.2
18 Fredonia 3&4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Fredrickson 1&2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
20 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
21 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
22 Whitehorn 2 & 3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
23 Total Investor-Owned Entities	956	956	822	668	861	993	993	989	981	976	976	463	963	956	885
-Other Entities-															
24 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
25 Frederickson CT	114	114	114	114	114	114	114	114	114	114	114	0	114	114	104
26 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
27 Rathdrum CCCT	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
28 Satsop #1 CCCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Total Other Entities	850	850	850	850	855	860	860	860	850	568	568	721	380	850	779
-Combustion Turbines-															
30 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Public Entities	389	389	389	384	385	386	386	385	383	383	383	8	383	383	354
32 Investor-Owned Entities	956	956	822	668	861	993	993	989	981	976	976	463	963	956	885
33 Other Entities	850	850	850	850	855	860	860	860	850	568	568	721	380	850	779
34 Total Combustion Turbines	2194	2194	2060	1902	2101	2239	2239	2234	2214	1927	1927	1193	1726	2189	2018

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2007 - 2008 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Franklin Generating Station	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	0	7.6	7.6	7
4 Frederickson CT	114	114	114	114	114	114	114	114	114	114	114	0	114	114	104
5 Grays Harbor Generating Station	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	0	7.6	7.6	7
6 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 River Road	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
8 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
10 Total Public Entities	383	383	383	384	385	386	386	385	383	383	383	8	383	383	353
-Investor-Owned Entities-															
11 Beaver	435	435	299	145	337	467	467	464	460	455	455	448	442	435	404
12 Beaver 8	0	0	2	2	3	5	5	4	0	0	0	0	0	0	1.8
13 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
15 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16 Encogen	175	175	175	175	175	175	175	175	175	175	175	0	175	175	160
17 Fredonia 1&2	10	10	10	10	10	10	10	10	10	10	10	0	10	10	9.2
18 Fredonia 3&4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Fredrickson 1&2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
20 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
21 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
22 Whitehorn 2 & 3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
23 Total Investor-Owned Entities	956	956	822	668	861	993	993	989	981	976	976	463	963	956	885
-Other Entities-															
24 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
25 Frederickson CT	114	114	114	114	114	114	114	114	114	114	114	0	114	114	104
26 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
27 Longview - Mint CCCT	271	271	271	271	271	271	271	271	271	271	271	0	271	271	248
28 Rathdrum CCCT	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
29 Satsop #1 CCCT	654	654	654	654	654	654	654	654	654	0	0	654	654	654	599
30 Total Other Entities	1775	1775	1775	1775	1780	1785	1785	1785	1775	839	839	1375	1305	1775	1627
-Combustion Turbines-															
31 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Public Entities	383	383	383	384	385	386	386	385	383	383	383	8	383	383	353
33 Investor-Owned Entities	956	956	822	668	861	993	993	989	981	976	976	463	963	956	885
34 Other Entities	1775	1775	1775	1775	1780	1785	1785	1785	1775	839	839	1375	1305	1775	1627
35 Total Combustion Turbines	3114	3114	2980	2827	3025	3163	3164	3159	3139	2198	2198	1846	2651	3114	2865

**Table A-7: Regional Combustion Turbines
PNW Loads and Resources Study
2012 - 2013 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 Benton CT	0	0	0	1	1.5	2.5	3	2	0	0	0	0	0	0	0.8
3 Franklin Generating Station	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	0	7.6	7.6	7
4 Frederickson CT	114	114	114	114	114	114	114	114	114	114	114	0	114	114	104
5 Grays Harbor Generating Station	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	0	7.6	7.6	7
6 Olympic View Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 River Road	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
8 Roosevelt Landfill	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9 Wauna Peaking Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.3
10 Total Public Entities	383	383	383	384	385	386	386	385	383	383	383	8	383	383	353
-Investor-Owned Entities-															
11 Beaver	435	435	299	145	337	467	467	464	460	455	455	448	442	435	404
12 Beaver 8	0	0	2	2	3	5	5	4	0	0	0	0	0	0	1.8
13 Big Hanaford CCCT	244	244	244	244	244	244	244	244	244	244	244	0	244	244	224
14 Boulder Park	25	25	25	25	25	25	25	25	25	25	25	0	25	25	23
15 Danskin	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16 Encogen	175	175	175	175	175	175	175	175	175	175	175	0	175	175	160
17 Fredonia 1&2	10	10	10	10	10	10	10	10	10	10	10	0	10	10	9.2
18 Fredonia 3&4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Fredrickson 1&2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
20 Kettle Falls CT	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.4	7.2	7.2	6.9
21 Northeastern 1 & 2	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
22 Whitehorn 2 & 3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
23 Total Investor-Owned Entities	956	956	822	668	861	993	993	989	981	976	976	463	963	956	885
-Other Entities-															
24 Chehalis Generation Facility CCCT	455	455	455	455	455	455	455	455	455	455	455	455	0	455	417
25 Frederickson CT	114	114	114	114	114	114	114	114	114	114	114	0	114	114	104
26 Klamath Peaking Unit	15	15	15	15	20	25	25	25	15	0	0	0	0	15	14
27 Longview - Mint CCCT	271	271	271	271	271	271	271	271	271	271	271	0	271	271	248
28 Rathdrum CCCT	267	267	267	267	267	267	267	267	267	0	0	267	267	267	244
29 Satsop #1 CCCT	654	654	654	654	654	654	654	654	654	0	0	654	654	654	599
30 Total Other Entities	1775	1775	1775	1775	1780	1785	1785	1785	1775	839	839	1375	1305	1775	1627
-Combustion Turbines-															
31 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Public Entities	383	383	383	384	385	386	386	385	383	383	383	8	383	383	353
33 Investor-Owned Entities	956	956	822	668	861	993	993	989	981	976	976	463	963	956	885
34 Other Entities	1775	1775	1775	1775	1780	1785	1785	1785	1775	839	839	1375	1305	1775	1627
35 Total Combustion Turbines	3114	3114	2980	2827	3025	3163	3164	3159	3139	2198	2198	1846	2651	3114	2865

Table A-8
Renewable Resources
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-8: Regional Renewable Resources
PNW Loads and Resources Study
2003 - 2004 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Federal System-															
1 James River Wauna	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
7 Total Investor-Owned Entities	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
-Other Entities-															
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
9 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
10 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
11 Investor-Owned Entities	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Renewable Resources	77	77	77	78	79	81	82	81	81	80	80	55	77	77	77

**Table A-8: Regional Renewable Resources
PNW Loads and Resources Study
2007 - 2008 Operating Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 James River Wauna	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
7 Total Investor-Owned Entities	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
-Other Entities-															
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
9 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
10 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
11 Investor-Owned Entities	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Renewable Resources	77	77	77	78	79	81	82	81	81	80	80	55	77	77	77

**Table A-8: Regional Renewable Resources
PNW Loads and Resources Study
2012 - 2013 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Federal System-															
1 James River Wauna	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
2 Total Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-Public Entities-															
3 Coffin Butte	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
4 Short Mountain	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
5 Total Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
-Investor-Owned Entities-															
6 Kettle Falls	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
7 Total Investor-Owned Entities	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
-Other Entities-															
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Renewable Resources-															
9 Federal System	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
10 Public Entities	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
11 Investor-Owned Entities	44	44	44	44	44	44	44	44	44	44	44	22	44	44	42
12 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Renewable Resources	77	77	77	78	79	81	82	81	81	80	80	55	77	77	77

Table A-9
Cogeneration
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2003 - 2004 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor Owned Entities-															
4 Coyote Springs #1	225	22	228	231	237	241	242	239	236	232	232	22	227	224	207
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
7 James River-Camas	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
8 Total Investor-Owned Entities	854	651	857	860	866	870	871	868	865	861	861	22	856	853	783
-Other Entities-															
9 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
10 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
11 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
12 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
13 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
16 Investor-Owned Entities	854	651	857	860	866	870	871	868	865	861	861	22	856	853	783
17 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
18 Total Cogeneration	2117	1914	2120	2123	2129	2126	2134	2131	1508	2124	2124	920	2119	2109	1963

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2007 - 2008 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor Owned Entities-															
4 Coyote Springs #1	225	22	228	231	237	241	242	239	236	232	232	22	227	224	207
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
7 James River-Camas	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
8 Total Investor-Owned Entities	854	651	857	860	866	870	871	868	865	861	861	22	856	853	783
-Other Entities-															
9 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
10 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
11 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
12 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
13 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
16 Investor-Owned Entities	854	651	857	860	866	870	871	868	865	861	861	22	856	853	783
17 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
18 Total Cogeneration	2117	1914	2120	2123	2129	2126	2134	2131	1508	2124	2124	920	2119	2109	1963

**Table A-9: Regional Cogeneration
PNW Loads and Resources Study
2012 - 2013 Operating Year
2002 White Book**

9/9/2003

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
-Federal System-															
1 Total Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Public Entities-															
2 WEYCO Energy Center	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
3 Total Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-Investor Owned Entities-															
4 Coyote Springs #1	225	22	228	231	237	241	242	239	236	232	232	22	227	224	207
5 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
6 Hermiston Cogeneration	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
7 James River-Camas	48	48	48	48	48	48	48	48	48	48	48	0	48	48	44
8 Total Investor-Owned Entities	854	651	857	860	866	870	871	868	865	861	861	22	856	853	783
-Other Entities-															
9 Coyote Springs #2	138	138	138	138	138	138	138	138	138	138	138	0	138	138	126
10 Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	568
11 Klamath Cogeneration Project	455	455	455	455	455	455	455	455	455	455	455	227	455	455	436
12 Longview Fibre	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
13 Total Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
-Cogeneration-															
14 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Public Entities	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
16 Investor-Owned Entities	854	651	857	860	866	870	871	868	865	861	861	22	856	853	783
17 Other Entities	1248	1248	1248	1248	1248	1248	1248	1248	628	1248	1248	883	1248	1248	1166
18 Total Cogeneration	2117	1914	2120	2123	2129	2126	2134	2131	1508	2124	2124	920	2119	2109	1963

Table A-10
Large Thermal
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2003 - 2004 Operating Year
2002 White Book**

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Public Entities	52	52	52	52	52	52	52	52	52	52	52	3.4	51	52	48
48 Investor-Owned Entities	5357	5357	5306	4910	5357	5357	5357	5357	5230	4676	4621	3010	4951	5357	5017
49 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6410	6410	6359	5963	6410	6410	6410	6410	6283	5729	5673	4013	6002	6410	6065

**Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2007 - 2008 Operating Year
2002 White Book**

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Public Entities	52	52	52	52	52	52	52	52	52	52	52	3.4	51	52	48
48 Investor-Owned Entities	5316	5316	5316	5316	5316	5316	5316	5316	5256	5306	5206	2202	5267	5316	5042
49 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6368	6368	6368	6368	6368	6368	6368	6368	6308	6358	6258	3206	6318	6368	6091

**Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2012 - 2013 Operating Year
2002 White Book**

9/9/2003

<i>Average Energy 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>	<i>Avg</i>
-Boardman: Coal-															
1 Idaho Power Company	52	52	52	52	52	52	52	52	52	52	52	3.4	51	52	48
2 Portland General Electric	342	342	342	342	342	342	342	342	342	342	342	22	331	342	315
3 San Diego Gas & Electric	78	78	78	78	78	78	78	78	78	78	78	5	75	78	71
4 Turlock Irrigation District	52	52	52	52	52	52	52	52	52	52	52	3.4	51	52	48
5 Boardman: Coal: Regional Totals	525	525	525	525	525	525	525	525	525	525	525	34	507	525	483
-Centralia #1: Coal-															
6 Trans Alta Utilities Corp	626	626	626	626	626	626	626	626	626	626	626	626	626	626	626
7 Centralia #1: Coal: Regional Totals	626	626	626	626	626	626	626	626	626	626	626	626	626	626	626
-Centralia #2: Coal-															
8 Trans Alta Utilities Corp	626	626	626	626	626	626	626	626	626	626	626	40	626	626	577
9 Centralia #2: Coal: Regional Totals	626	626	626	626	626	626	626	626	626	626	626	40	626	626	577
-Columbia Generating Station: Uranium-															
10 BPA - Power Business	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	290	233	1000	877
11 Columbia Generating Station: Uranium: Regional Totals	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	290	233	1000	877
-Colstrip #1: Coal-															
12 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Puget Sound Energy	148	148	148	148	148	148	148	148	148	148	148	0	148	148	136
14 Colstrip #1: Coal: Regional Totals	148	148	148	148	148	148	148	148	148	148	148	0	148	148	136
-Colstrip #2: Coal-															
15 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Puget Sound Energy	148	148	148	148	148	148	148	148	148	148	148	0	148	148	136
17 Colstrip #2: Coal: Regional Totals	148	148	148	148	148	148	148	148	148	148	148	0	148	148	136
-Colstrip #3: Coal-															
18 Avista Corp (WWP Division)	108	108	108	108	108	108	108	108	108	108	108	0	108	108	99
19 Northwestern Energy LLC (MPC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Pacificorp	72	72	72	72	72	72	72	72	72	72	72	0	72	72	66
21 Portland General Electric	144	144	144	144	144	144	144	144	144	144	144	0	144	144	132
22 Puget Sound Energy	180	180	180	180	180	180	180	180	180	180	180	0	180	180	165
23 Colstrip #3: Coal: Regional Totals	504	504	504	504	504	504	504	504	504	504	504	0	504	504	462
-Colstrip #4: Coal-															
24 Avista Corp (WWP Division)	108	108	108	108	108	108	108	108	108	108	108	0	108	108	99
25 Northwestern Energy LLC (MPC)	216	216	216	216	216	216	216	216	216	216	216	0	216	216	198
26 Pacificorp	72	72	72	72	72	72	72	72	72	72	72	0	72	72	66
27 Portland General Electric	144	144	144	144	144	144	144	144	144	144	144	0	144	144	132
28 Puget Sound Energy	180	180	180	180	180	180	180	180	180	180	180	0	180	180	165
29 Colstrip #4: Coal: Regional Totals	720	720	720	720	720	720	720	720	720	720	720	0	720	720	660
-Jim Bridger #1: Coal-															
30 Idaho Power Company	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151
31 Pacificorp	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303
32 Jim Bridger #1: Coal: Regional Totals	454	454	454	454	454	454	454	454	454	454	454	454	454	454	454
-Jim Bridger #2: Coal-															
33 Idaho Power Company	165	165	165	165	165	165	165	165	165	165	165	138	22	165	151
34 Pacificorp	330	330	330	330	330	330	330	330	330	330	330	276	44	330	302
35 Jim Bridger #2: Coal: Regional Totals	495	495	495	495	495	495	495	495	495	495	495	414	66	495	453
-Jim Bridger #3: Coal-															
36 Idaho Power Company	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151
37 Pacificorp	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303
38 Jim Bridger #3: Coal: Regional Totals	454	454	454	454	454	454	454	454	454	454	454	454	454	454	454
-Jim Bridger #4: Coal-															
39 Idaho Power Company	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151
40 Pacificorp	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303
41 Jim Bridger #4: Coal: Regional Totals	454	454	454	454	454	454	454	454	454	454	454	454	454	454	454
-Valmy #1: Coal-															
42 Idaho Power Company	103	103	103	103	103	103	103	103	40	96	103	103	103	103	98
43 Valmy #1: Coal: Regional Totals	103	103	103	103	103	103	103	103	40	96	103	103	103	103	98
-Valmy #2: Coal-															
44 Idaho Power Company	110	110	110	110	110	110	110	110	110	66	0	35	110	110	97
45 Valmy #2: Coal: Regional Totals	110	110	110	110	110	110	110	110	110	66	0	35	110	110	97
-Total Large Thermal-															
46 Federal System	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	290	233	1000	877

**Table A-10: Regional Large Thermal
PNW Loads and Resources Study
2012 - 2013 Operating Year
2002 White Book**

Average Energy in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
47 Public Entities	52	52	52	52	52	52	52	52	52	52	52	3.4	51	52	48
48 Investor-Owned Entities	5316	5316	5316	5316	5316	5316	5316	5316	5253	5265	5206	2612	4871	5316	5042
49 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Total Large Thermal	6369	6369	6369	6369	6369	6369	6369	6369	6306	6318	6259	2906	5155	6369	5967

Table A-11
Restoration
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

Table A-12
Canadian Entitlement Return For CSPE
Monthly OY 2004 – 2013
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

