

**Bonneville Power Administration
2000 Pacific Northwest Loads and Resources Study
Technical Appendix**

**Section 3
Table A-1
Medium Loads
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-1: Medium Loads
PNW Loads and Resources Study
2002 - 2011 Operating Years
2000 White Book**

10/1/2001

<i>Average Energy in Megawatts</i>	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
Firm Loads										
-Federal Entities-										
1 Federal Entities	126	126	131	133	134	135	135	137	138	138
2 Total Federal Entities	126	126	131	133	134	135	135	137	138	138
-U.S. Bureau of Reclamation-										
3 U.S. Bureau of Reclamation	148	148	148	148	148	148	148	148	148	148
4 Total U.S. Bureau of Reclamation	148	148	148	148	148	148	148	148	148	148
-Direct Service Industry-										
5 Direct Service Industry	2019	1750	1750	1750	1750	1750	1750	1750	1750	1750
6 Total Direct Service Industry	2019	1750	1750	1750	1750	1750	1750	1750	1750	1750
-Generating Public Entities-										
7 Generating Public Entities	5185	5256	5345	5442	5519	5592	5648	5735	5806	5883
8 Total Generating Public Entities	5185	5256	5345	5442	5519	5592	5648	5735	5806	5883
-Non-Generating Public Entities-										
9 Non-Generating Public Entities	3375	3482	3580	3659	3717	3775	3819	3893	3953	4010
10 Total Non-Generating Public Entities	3375	3482	3580	3659	3717	3775	3819	3893	3953	4010
-Investor-Owned Entities-										
11 Investor-Owned Entities	11335	11567	11811	12079	12301	12540	12785	13046	13307	13570
12 Total Investor-Owned Entities	11335	11567	11811	12079	12301	12540	12785	13046	13307	13570
-Other Firm Loads-										
13 Other PNW Entities	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
- Total Regional Firm Loads-										
15 Federal Entities	274	274	279	281	282	283	283	285	285	286
16 Direct Service Industry	2019	1750	1750	1750	1750	1750	1750	1750	1750	1750
17 Public Entities	8559	8738	8926	9101	9237	9368	9467	9629	9759	9893
18 Investor-Owned Entities	11335	11567	11811	12079	12301	12540	12785	13046	13307	13570
19 Other Entities	180	180	180	180	180	180	180	180	180	180
20 Total Regional Firm Loads	22367	22509	22945	23390	23750	24121	24465	24889	25282	25679
Non-Firm Loads										
-Investor-Owned Entities-										
21 Investor-Owned Entities	14	14	14	14	14	14	14	14	14	14
22 Total Investor-Owned Entities	14	14	14	14	14	14	14	14	14	14
- Total Regional Non-Firm Loads-										
23 Federal Entities	0	0	0	0	0	0	0	0	0	0
24 Direct Service Industry	0	0	0	0	0	0	0	0	0	0
25 Public Entities	0	0	0	0	0	0	0	0	0	0
26 Investor-Owned Entities	14	14	14	14	14	14	14	14	14	14
27 Total Regional Non-Firm Loads	14	14	14	14	14	14	14	14	14	14
- Total Regional Medium Loads-										
28 Federal Entities	274	274	279	281	282	283	283	285	285	286
29 Direct Service Industry	2019	1750	1750	1750	1750	1750	1750	1750	1750	1750
30 Public Entities	8559	8738	8926	9101	9237	9368	9467	9629	9759	9893
31 Investor-Owned Entities	11349	11581	11825	12093	12315	12554	12799	13060	13321	13584
32 Other Entities	180	180	180	180	180	180	180	180	180	180
33 Total Regional Medium Loads	22381	22523	22959	23404	23764	24135	24479	24903	25296	25693

**Bonneville Power Administration
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Technical Appendix**

**Section 3
Table A-2
Exports
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-2: Exports
PNW Loads and Resources Study
2002 - 2011 Operating Years
2000 White Book**

10/1/2001

Average Energy in Megawatts	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
-Exports East of Continental Divide-										
1 BPA To Other Entities	64	73	75	78	82	85	89	92	96	99
2 Total Exports To ECD	64	73	75	78	82	85	89	92	96	99
-Exports to Pacific Southwest-										
3 BPA To ANHM Pwr X	5	5	5	3.3	0	0	0	0	0	0
4 BPA To AZUS Cap S	0.4	0.4	0.4	0	0	0	0	0	0	0
5 BPA To AZUS Pwr S	0.8	0.8	0.2	0	0	0	0	0	0	0
6 BPA To BANN Cap S	0.1	0.1	0.1	0	0	0	0	0	0	0
7 BPA To BANN Pwr S	0.3	0.3	0.1	0	0	0	0	0	0	0
8 BPA To BART Pwr S	33	34	25	25	25	25	25	25	25	25
9 BPA To BURB C/N/X	8.4	8.4	8.4	8.4	8.4	8.4	5.4	0	0	0
10 BPA To CDWR Pwr X	14	0	0	0	0	0	0	0	0	0
11 BPA To CLTN Cap S	0.4	0.4	0.4	0	0	0	0	0	0	0
12 BPA To CLTN Pwr X	0.8	0.8	0.2	0	0	0	0	0	0	0
13 BPA To GLEN C/N/X	4.2	4.2	4.2	4.2	4.2	4.2	2.7	0	0	0
14 BPA To GNSA Pwr S	14	0	0	0	0	0	0	0	0	0
15 BPA To MSR Pwr S	75	75	75	75	15	0	0	0	0	0
16 BPA To Other Entities	625	549	360	300	300	83	0	0	0	0
17 BPA To PASA C/N/X	2.5	2.5	2.5	2.5	2.5	2.5	1.6	0	0	0
18 BPA To PASA C/N/X	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
19 BPA To PASA S/N/X	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
20 BPA To RVSD Cap S	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0
21 BPA To RVSD C/N/X	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.7	0	0
22 BPA To RVSD C/N/X	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
23 BPA To RVSD S/Pwr/X	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
24 IPC To AZUS Pwr S	1.4	1.4	1.2	0	0	0	0	0	0	0
25 IPC To BANN Pwr S	0.4	0.4	0.4	0	0	0	0	0	0	0
26 IPC To CLTN Pwr S	1.4	1.4	1.2	0	0	0	0	0	0	0
27 PGE To BURB Pwr S	3.6	3.6	2.4	0	0	0	0	0	0	0
28 PGE To GLEN Pwr S	20	20	20	20	20	20	20	20	20	20
29 PGE To GLEN S/Pwr/X	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
30 PPL To CDWR Pwr S	70	70	70	30	0	0	0	0	0	0
31 PPL To PPLNC Pwr S	15	17	17	18	20	21	21	22	22	22
32 PPL To REDD Pwr S	43	43	43	43	43	43	43	43	43	43
33 PPL To SCE Pwr S	51	51	51	51	51	8.3	0	0	0	0
34 PPL To SMUD Pwr S	40	40	40	40	40	40	40	40	40	40
35 PSE To PG&E S/Pwr/X	47	47	47	24	0	0	0	0	0	0
36 SCL To NCPA S/Pwr/X	10	10	10	10	10	10	10	10	10	10
37 SDGEB To SDGE Pwr S	57	57	57	57	57	57	57	57	57	57
38 SHPD To SMUD Pwr S	29	29	29	29	29	29	6	0	0	0
39 TIDB To TID Pwr S	39	39	39	39	39	39	39	39	39	39
40 BPA NW-SW Intertie Losses	24	21	15	13	11	4.2	1.5	1.2	1.2	1.1
41 Total Exports To PSW	1255	1151	945	812	695	414	292	275	273	271
-Exports to Inland Southwest-										
42 BPA To SPP Pwr S	60	60	60	60	60	60	60	60	60	60
43 CIDF To UPLCX Pwr S	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
44 IPC To CWUT Pwr S	4.6	0	0	0	0	0	0	0	0	0
45 IPC To UAMP Pwr S	41	39	17	0	0	0	0	0	0	0
46 LVFBR To WAPA Pwr S	36	36	36	36	36	36	36	36	36	36
47 PPL To WAPA Pwr S	111	111	111	89	0	0	0	0	0	0
48 TPU To WAPA Pwr S	41	41	41	21	0	0	0	0	0	0
49 Total Exports To ISW	297	291	269	209	100	100	100	100	100	100
-Exports to Canada-										
50 BPA To BCHP Can Ent	292	374	537	537	535	532	529	527	524	524
51 Total Exports To Canada	292	374	537	537	535	532	529	527	524	524
-Exports to Other Entities-										
52 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0
-Total Exports-										
53 Federal Entities	1239	1225	1186	1124	1060	821	730	720	719	720
54 Public Entities	84	84	84	64	43	43	20	14	14	14
55 Investor-Owned Entities	453	448	426	318	177	135	127	128	128	128
56 Other Entities	131	131	131	131	131	131	131	131	131	131
57 Total Exports.	1908	1888	1827	1637	1411	1131	1010	994	993	994

**Bonneville Power Administration
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Technical Appendix**

**Section 3
Table A-3
Regulated Hydro Projects
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-3: Regulated Hydro Projects
PNW Loads and Resources Study
2002 - 2011 Operating Years
1937 Water Year
2000 White Book**

Average Energy in Megawatts	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
-Regulated Hydro Projects-										
1 Albeni Falls	25	25	25	25	25	25	25	25	25	25
2 Alder	23	23	23	23	23	23	23	23	23	23
3 Bonneville	410	411	412	414	415	417	417	417	417	417
4 Boundary	332	332	332	332	332	332	332	332	332	332
5 Box Canyon	48	48	48	48	48	48	48	48	48	48
6 Brownlee	235	235	235	235	235	235	235	235	235	235
7 Cabinet Gorge	86	86	86	86	86	86	86	86	86	86
8 Chelan	44	44	44	44	44	44	44	44	44	44
9 Chief Joseph	1047	1051	1054	1057	1061	1064	1067	1069	1069	1069
10 Cushman 1	15	15	15	15	15	15	15	15	15	15
11 Cushman 2	32	32	32	32	32	32	32	32	32	32
12 Diablo	79	79	79	79	79	79	79	79	79	79
13 Dworshak	118	118	118	118	118	118	118	118	118	118
14 Faraday	20	20	20	20	20	20	20	20	20	20
15 Gorge	91	91	91	91	91	91	91	91	91	91
16 Grand Coulee	1900	1903	1905	1908	1911	1914	1917	1918	1918	1918
17 Hells Canyon	189	189	189	189	189	189	189	189	189	189
18 Hungry Horse	77	77	77	77	77	77	77	77	77	77
19 Ice Harbor	97	97	97	97	97	97	97	97	97	97
20 John Day	801	801	801	801	801	801	801	801	801	801
21 Kerr	28	27	28	27	27	29	28	28	30	32
22 La Grande	36	36	36	36	36	36	36	36	36	36
23 Libby	161	161	161	161	161	161	161	161	161	161
24 Little Falls	19	19	19	19	19	19	19	19	19	19
25 Little Goose	209	209	209	209	209	209	209	209	209	209
26 Long Lake	43	43	43	43	43	43	43	43	43	43
27 Lower Baker	36	36	36	36	36	36	36	36	36	36
28 Lower Granite	212	212	212	212	212	212	212	212	212	212
29 Lower Monumental	214	214	214	214	214	214	214	214	214	214
30 Mayfield	69	69	69	69	69	69	69	69	69	69
31 Mc Nary	548	548	548	548	548	548	548	548	548	548
32 Merwin	50	50	50	50	50	50	50	50	50	50
33 Monroe Street	11	11	11	11	11	11	11	11	11	11
34 Mossyrock	94	94	94	94	94	94	94	94	94	94
35 Nine Mile	13	13	13	13	13	13	13	13	13	13
36 North Fork	23	23	23	23	23	23	23	23	23	23
37 Noxon	128	128	128	128	128	128	128	128	128	128
38 Oak Grove	27	27	27	27	27	27	27	27	27	27
39 Oxbow	97	97	97	97	97	97	97	97	97	97
40 Pelton	36	36	36	36	36	36	36	36	36	36
41 Post Falls	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
42 Priest Rapids	330	330	330	330	330	330	330	330	330	330
43 River Mill	11	11	11	11	11	11	11	11	11	11
44 Rock Island PH#1	172	172	172	172	172	172	172	172	172	172
45 Rock Island PH#2	112	112	112	112	112	112	112	112	112	112
46 Rocky Reach	537	537	537	537	537	537	537	537	537	537
47 Ross	82	82	82	82	82	82	82	82	82	82
48 Round Butte	87	87	87	87	87	87	87	87	87	87
49 Swift 1	58	58	58	58	58	58	58	58	58	58
50 Swift 2	22	22	22	22	22	22	22	22	22	22
51 The Dalles	515	515	515	515	515	515	515	515	515	515
52 Thompson Falls	13	13	14	13	13	14	14	14	14	16
53 Upper Baker	32	32	32	32	32	32	32	32	32	32
54 Upper Falls	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
55 Wanapum	356	356	356	356	356	356	356	356	356	356
56 Wells	344	344	344	344	344	344	344	344	344	344
57 White	33	33	33	33	33	33	33	33	33	33
58 Yale	57	57	57	57	57	57	57	57	57	57
Total Regulated Hydro w/Enc.	10502	10509	10518	10524	10532	10542	10548	10551	10553	10557
-Total Regulated Hydro W/Enc.-										
59 Federal System	6334	6342	6349	6357	6364	6372	6379	6382	6382	6382
60 Public Entities	1642	1653	1664	1675	1773	1813	1813	1813	1963	2014
61 Investor-Owned Entities	2403	2391	2382	2369	2271	2234	2233	2233	2084	2038
62 Other Entities	123	123	123	123	123	123	123	123	123	123
63 Total Regulated Hydro w/Enc.	10502	10509	10518	10524	10532	10542	10548	10551	10553	10557

**Bonneville Power Administration
2000 Pacific Northwest Loads and Resources Study
Technical Appendix**

**Section 3
Table A-4
Independent Hydro Projects
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

Reports Powered by:



Loads and Resources Information System

**Table A-4: Independent Hydro Projects
PNW Loads and Resources Study
2002 - 2011 Operating Years
1937 Water Year
2000 White Book**

Average Energy in Megawatts	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
73 Twin Falls	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
74 Upper Salmon 1 & 2	18	18	18	18	18	18	18	18	18	18
75 Upper Salmon 3 & 4	15	15	15	15	15	15	15	15	15	15
76 WALTERVILLE	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77 WYNOCHEE	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
78 YELM	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Total Independent Hydro w/Enc.	1121	1121	1122	1121	1121	1122	1122	1122	1123	1128
-Total Independent Hydro W/Enc.-										
79 Federal System	405	406	406	406	406	406	406	406	406	406
80 Public Entities	156	156	156	156	156	156	156	156	156	156
81 Investor-Owned Entities	560	558	560	558	558	560	559	560	561	566
82 Other Entities	0	0	0	0	0	0	0	0	0	0
83 Total Independent Hydro w/Enc.	1121	1121	1122	1121	1121	1122	1122	1122	1123	1128

**Bonneville Power Administration
2000 Pacific Northwest Loads and Resources Study
Technical Appendix**

Section 3
Table A-5
Imports
Annual OY 2002 – 2011
Average Energy in Megawatts

Power Business Line

Reports Powered by:



Loads and Resources Information System

Table A-5: Imports
PNW Loads and Resources Study
2002 - 2011 Operating Years
2000 White Book

10/1/2001

Average Energy in Megawatts	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
-Imports From East of Continental Divide-										
1 BEPC To MPC Pwr S	42	42	42	42	42	42	42	42	42	0
2 PPLE To BPA Pwr S	94	94	94	94	94	94	94	94	94	94
3 PPLE To PPL Pwr S	719	742	732	658	660	662	581	604	595	595
4 Total Imports From ECD	855	878	868	794	796	798	717	740	732	690
-Imports From Pacific Southwest-										
5 ANHM To BPA Pwr X	10	10	10	10	0	0	0	0	0	0
6 BURB To BPA Xchg Nrg	8	8	8.0	8	8	8	6.3	0	0	0
7 BURB To BPA Pk Repl	8.4	8.4	8.4	8.4	8.4	8.4	5.4	0	0	0
8 CDWR To BPA Pwr X	15	0	0	0	0	0	0	0	0	0
9 CLTN To BPA Pwr X	1	1	1	0	0	0	0	0	0	0
10 GLEN To BPA Xchg Nrg	4	4	4.0	4	4	4	3.2	0	0	0
11 GLEN To BPA Pk Repl	4.2	4.2	4.2	4.2	4.2	4.2	2.7	0	0	0
12 GLEN To PGE S/Pwr/X	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
13 NCPA To SCL S/Pwr/X	12	12	12	12	12	12	12	12	12	12
14 Other Entities To BPA	97	25	10	0	0	0	0	0	0	0
15 PASA To BPA Xchg Nrg	2.4	2.4	2.4	2.4	2.4	2.4	1.9	0	0	0
16 PASA To BPA Pk Repl	2.5	2.5	2.5	2.5	2.5	2.5	1.6	0	0	0
17 PASA To BPA Xchg Nrg	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
18 PASA To BPA S/N/X	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
19 PASA To BPA Pk Repl	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
20 PG&E To PSE S/Pwr/X	47	47	47	47	47	47	24	0	0	0
21 RVSD To BPA Xchg Nrg	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0
22 RVSD To BPA Pk Repl	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0
23 RVSD To BPA Pk Repl	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.7	0
24 RVSD To BPA Xchg Nrg	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
25 RVSD To BPA S/Pwr/X	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
26 RVSD To BPA Pk Repl	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
27 SCE To PPL Pwr S	18	18	18	0	0	0	0	0	0	0
28 Total Imports From PSW	262	175	160	131	121	121	89	44	43	35
-Imports From Inland Southwest-										
29 Other Entities To BPA	21	42	42	42	42	21	0	0	0	0
30 SPP To BPA Pwr S	60	60	60	60	60	60	60	60	60	60
31 UPLCX To UPLC Pwr S	360	364	370	373	373	376	380	380	333	0
32 WAPA To GLEC ARP	2.8	3.3	0.5	0	0	0	0	0	0	0
33 Total Imports From ISW	443	469	472	474	475	457	440	440	393	60
-Imports From Canada-										
34 BCHP To SCL Pwr S	36	36	36	36	36	36	36	36	36	36
35 Other Entities To BPA	4.5	0	0	0	0	0	0	0	0	0
36 Other Entities To PGE	100	100	42	0	0	0	0	0	0	0
37 PWRX To BPA Pk Repl	0.4	0.4	0.4	0	0	0	0	0	0	0
38 PWRX To BPA Pk Repl	0.1	0.1	0.1	0	0	0	0	0	0	0
39 PWRX To BPA Pk Repl	0.4	0.4	0.4	0	0	0	0	0	0	0
40 PWRX To BREA ARP	9.8	0	0	0	0	0	0	0	0	0
41 PWRX To BREA Pwr S	7.1	0	0	0	0	0	0	0	0	0
42 PWRX To COPD Pwr S	9	0	0	0	0	0	0	0	0	0
43 PWRX To CWPC Pwr S	1.3	0	0	0	0	0	0	0	0	0
44 PWRX To EWEB Pwr S	20	20	2.8	0	0	0	0	0	0	0
45 Total Imports From Canada	188	157	81	36	36	36	36	36	36	36
-Imports From Other Entities-										
46 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0
-Total Imports-										
47 Federal System	362	291	277	264	254	234	204	183	182	174
48 Public Entities	98	71	51	48	48	48	48	48	48	48
49 Investor-Owned Entities	1288	1315	1253	1123	1125	1130	1030	1029	973	598
50 Other Entities	0	0	0	0	0	0	0	0	0	0
51 Total Imports.	1749	1678	1581	1435	1428	1411	1282	1261	1203	821

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**Section 3
Table A-6
Small Thermal & Miscellaneous
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

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**Table A-6: Small Thermal and Miscellaneous
PNW Loads and Resources Study
2002 - 2011 Operating Years
2000 White Book**

Average Energy in Megawatts	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
-Federal System-										
1 Total Federal System	0	0	0	0	0	0	0	0	0	0
-Public Entities-										
2 Boundary	0	0	0	0	0	0	0	0	0	0
3 Total Public Entities	0	0	0	0	0	0	0	0	0	0
-Investor-Owned Entities-										
4 Corrette	33	33	34	33	33	34	34	34	35	41
5 Crystal Mountain	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Energy Mgmt Systems	17	17	17	17	17	17	17	17	17	17
7 Total Investor-Owned Entities	51	50	51	50	50	51	51	52	52	58
-Other Entities-										
8 Total Other Entities	0	0	0	0	0	0	0	0	0	0
-Small Thermal and Miscellaneous-										
9 Federal System	0	0	0	0	0	0	0	0	0	0
10 Public Entities	0	0	0	0	0	0	0	0	0	0
11 Investor-Owned Entities	51	50	51	50	50	51	51	52	52	58
12 Other Entities	0	0	0	0	0	0	0	0	0	0
13 Total Small Thermal & Misc.	51	50	51	50	50	51	51	52	52	58

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**Section 3
Table A-7
Combustion Turbines
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

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**Table A-7: Combustion Turbines
PNW Loads and Resources Study
2002 - 2011 Operating Years
2000 White Book**

10/1/2001

<i>Average Energy in Megawatts</i>	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
-Federal System-										
1 Total Federal System	0	0	0	0	0	0	0	0	0	0
-Public Entities-										
2 River Road	230	228	223	232	230	229	230	228	223	232
3 Roosevelt Landfill	9.5	11	11	11	11	11	11	11	11	11
4 Wartzilla 1 & 2	4.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
5 Total Public Entities	244	245	240	248	247	245	247	245	240	248
-Investor-Owned Entities-										
6 Beaver	390	390	390	390	390	390	390	390	390	390
7 Fredonia 1 & 2	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
8 Fredrickson 1 & 2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
9 Northeastern 1 & 2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
10 Whidbey Island	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
11 Whitehorn 1, 2 & 3	6	6	6	6	6	6	6	6	6	6
12 Total Investor-Owned Entities	411	411	411	411	411	411	411	411	411	411
-Other Entities-										
13 Total Other Entities	0	0	0	0	0	0	0	0	0	0
-Combustion Turbines-										
14 Federal System	0	0	0	0	0	0	0	0	0	0
15 Public Entities	244	245	240	248	247	245	247	245	240	248
16 Investor-Owned Entities	411	411	411	411	411	411	411	411	411	411
17 Other Entities	0	0	0	0	0	0	0	0	0	0
18 Total Combustion Turbines	655	656	651	659	658	656	658	656	651	659

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**Section 3
Table A-8
Renewable Resources
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

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**Section 3
Table A-9
Cogeneration
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

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**Section 3
Table A-10
Large Thermal
Annual OY 2002 – 2011
Average Energy in Megawatts**

Power Business Line

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**Table A-10: Large Thermal
PNW Loads and Resources Study
2002 - 2011 Operating Years
2000 White Book**

10/1/2001

Average Energy in Megawatts	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
-Boardman: Coal (Regional)-										
1 Idaho Power Company	39	39	39	39	39	39	39	39	39	39
2 Portland General Electric	251	251	251	251	251	251	251	251	251	251
3 San Diego Gas & Electric (Boardman)	57	57	57	57	57	57	57	57	57	57
4 Turlock Irrigation District (Boardman)	39	39	39	39	39	39	39	39	39	39
5 Boardman: Regional Totals	385	385	385	385	385	385	385	385	385	385
-Centralia 1: Coal-										
6 Trans Alta Utilities Corp	577	626	554	626	577	626	577	626	554	626
7 Centralia 1: Regional Totals	577	626	554	626	577	626	577	626	554	626
-Centralia 2: Coal-										
8 Trans Alta Utilities Corp	626	577	626	554	626	577	626	577	626	554
9 Centralia 2: Regional Totals	626	577	626	554	626	577	626	577	626	554
-Colstrip 1: Coal-										
10 Montana Power Company (Regional)	39	35	40	35	39	36	35	36	37	42
11 Puget Sound Energy	148	136	148	136	148	136	136	136	136	136
12 Colstrip 1: Regional Totals	187	171	188	171	187	172	171	172	173	178
-Colstrip 2: Coal-										
13 Montana Power Company (Regional)	35	39	36	39	35	36	35	36	37	42
14 Puget Sound Energy	136	148	136	148	136	136	136	136	136	136
15 Colstrip 2: Regional Totals	171	187	172	187	171	172	171	172	173	178
-Colstrip 3: Coal-										
16 Avista Corp (WWP Division)	108	108	99	108	108	99	108	108	99	108
17 Montana Power Company (Regional)	57	56	52	56	56	52	58	58	53	68
18 PacifiCorp	72	72	66	72	72	66	72	72	66	72
19 Portland General Electric	144	144	132	144	144	132	144	144	132	144
20 Puget Sound Energy	180	180	165	180	180	165	180	180	165	180
21 Colstrip 3: Regional Totals	561	560	514	560	560	514	562	562	515	572
-Colstrip 4: Coal-										
22 Avista Corp (WWP Division)	108	99	108	108	99	108	108	99	108	108
23 Montana Power Company (Regional)	216	198	216	216	198	216	216	198	216	216
24 PacifiCorp	72	66	72	72	66	72	72	66	72	72
25 Portland General Electric	144	132	144	144	132	144	144	132	144	144
26 Puget Sound Energy	180	165	180	180	165	180	180	165	180	180
27 Colstrip 4: Regional Totals	720	660	720	720	660	720	720	660	720	720
-Jim Bridger #1: Coal-										
28 Idaho Power Company	145	159	147	159	141	159	141	159	147	159
29 Jim Bridger #1: Regional Totals	145	159	147	159	141	159	141	159	147	159
-Jim Bridger #2: Coal-										
30 Idaho Power Company	159	147	147	141	159	147	159	147	159	147
31 Jim Bridger #2: Regional Totals	159	147	147	141	159	147	159	147	159	147
-Jim Bridger #3: Coal-										
32 Idaho Power Company	146	159	144	159	141	159	147	159	147	159
33 Jim Bridger #3: Regional Totals	146	159	144	159	141	159	147	159	147	159
-Jim Bridger #4: Coal-										
34 Idaho Power Company	159	147	159	147	159	140	159	146	159	147
35 Jim Bridger #4: Regional Totals	159	147	159	147	159	140	159	146	159	147
-Valmy #1: Coal-										
36 Idaho Power Company	100	101	101	96	97	97	100	98	97	97
37 Valmy #1: Regional Totals	100	101	101	96	97	97	100	98	97	97
-Valmy #2: Coal-										
38 Idaho Power Company	96	94	94	98	98	97	96	97	98	98
39 Valmy #2: Regional Totals	96	94	94	98	98	97	96	97	98	98
-WNP: Nuclear-										
40 BPA - Power Business	1000	875	1000	875	1000	875	1000	875	1000	875
41 WNP: Regional Totals	1000	875	1000	875	1000	875	1000	875	1000	875
-Total Large Thermal-										
42 Federal System	1000	875	1000	875	1000	875	1000	875	1000	875
43 Public Entities	0	0	0	0	0	0	0	0	0	0
44 Investor-Owned Entities	3939	3879	3857	3909	3867	3872	3920	3865	3858	3925

**Table A-10: Large Thermal
PNW Loads and Resources Study
2002 - 2011 Operating Years
2000 White Book**

Average Energy in Megawatts	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.	2008 Avg.	2009 Avg.	2010 Avg.	2011 Avg.
45 Other Entities	95	95	95	95	95	95	95	95	95	95
46 Non-NW Entities	0	0	0	0	0	0	0	0	0	0
47 Total Large Thermal	5034	4850	4952	4880	4962	4843	5016	4836	4954	4895

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**Section 3
Table A-11
Restoration
Annual OY 2002 – 2011
Average Energy in Megawatts**

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**Section 3
Table A-12
Canadian Entitlement Return For CSPE
Annual OY 2002 – 2011
Average Energy in Megawatts**

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