

## **Section 7: Federal System Exhibits**

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***Exhibit 1***

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

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# Exhibit 1: OY 2004 through 2013 Annual Energy

*Loads and Resources - Federal System  
PNW Loads and Resource Study  
2004 - 2013 Operating Years  
1937 Water Year  
2002 White Book*

9/9/2003

Average Energy in Megawatts	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
	Avg.									
<b>Non-Utility Obligations</b>										
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	117	118	118	119	120	120	121	121	122	122
USBR 2002 PSC Sale	148	148	148	148	148	148	148	148	148	148
DSI 2002 PSC Sale	640	762	768	128	0	0	0	0	0	0
<b>Total Firm Non-Utility Obligations</b>	<b>905</b>	<b>1028</b>	<b>1034</b>	<b>396</b>	<b>268</b>	<b>268</b>	<b>269</b>	<b>269</b>	<b>269</b>	<b>270</b>
<b>Transfers Out</b>										
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	2702	2761	2808	2967	3030	3071	3109	3147	3205	3257
GPU 2002 PSC Sale	2154	2177	2164	2416	2472	2485	2496	2506	2536	2553
NGP Slice Sale	613	607	619	612	625	616	628	619	630	621
GPU Slice Sale	1021	1011	1031	1018	1040	1026	1046	1031	1049	1034
IOU 2002 PSC Sale	382	382	382	64	0	0	0	0	0	0
Exports	1049	1005	968	740	701	694	693	694	697	702
Intra-Regional Transfers (Out)	697	454	454	420	411	411	411	411	240	225
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0
Federal Diversity	0	0	0	0	0	0	0	0	0	0
<b>Total Transfers Out</b>	<b>8618</b>	<b>8397</b>	<b>8426</b>	<b>8237</b>	<b>8278</b>	<b>8303</b>	<b>8382</b>	<b>8407</b>	<b>8358</b>	<b>8391</b>
<b>Total Firm Obligations</b>	<b>9523</b>	<b>9425</b>	<b>9460</b>	<b>8632</b>	<b>8546</b>	<b>8572</b>	<b>8651</b>	<b>8676</b>	<b>8627</b>	<b>8661</b>
<b>Hydro Resources</b>										
Regulated Hydro	6439	6446	6464	6492	6527	6545	6562	6577	6589	6603
Independent Hydro	397	397	397	398	398	398	398	398	398	398
Sustained Peaking Adjustment	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	142	142	140	139	138	137	136	136	135	134
Restoration	0	0	0	0	0	0	0	0	0	0
<b>Total Hydro Resources</b>	<b>6978</b>	<b>6984</b>	<b>7001</b>	<b>7028</b>	<b>7062</b>	<b>7079</b>	<b>7096</b>	<b>7111</b>	<b>7121</b>	<b>7135</b>
<b>Other Resources</b>										
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0
Renewables	29	29	29	29	29	29	29	29	29	29
Cogeneration	0	0	0	0	0	0	0	0	0	0
Imports	268	255	245	225	198	183	182	174	174	174
Intra-Regional Transfers (In)	1559	1405	1255	518	288	288	288	288	117	102
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0
Large Thermal	1000	877	1000	877	1000	877	1000	877	1000	877
Non-Utility Generation	92	134	119	119	119	119	119	119	119	119
Resource Acquisition	0	0	0	0	0	0	0	0	0	0
<b>Total Other Resources</b>	<b>2948</b>	<b>2700</b>	<b>2648</b>	<b>1767</b>	<b>1633</b>	<b>1496</b>	<b>1618</b>	<b>1487</b>	<b>1439</b>	<b>1301</b>
<b>Total Resources</b>	<b>9926</b>	<b>9684</b>	<b>9649</b>	<b>8795</b>	<b>8696</b>	<b>8575</b>	<b>8714</b>	<b>8598</b>	<b>8560</b>	<b>8436</b>
<b>Reserves &amp; Maintenance</b>										
Hydro Reserves	0	0	0	0	0	0	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0	0	0	0	0	0	0
Contract Reserves	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	0	0	0	0	0	0	0	0	0	0
Federal Hydro Maintenance	0	0	0	0	0	0	0	0	0	0
Spinning Reserves	0	0	0	0	0	0	0	0	0	0
Federal Transmission Losses	-280	-273	-272	-248	-245	-242	-246	-242	-241	-238
<b>Total Reserves, Maintenance &amp; Losses</b>	<b>-280</b>	<b>-273</b>	<b>-272</b>	<b>-248</b>	<b>-245</b>	<b>-242</b>	<b>-246</b>	<b>-242</b>	<b>-241</b>	<b>-238</b>
<b>Total Net Resources</b>	<b>9646</b>	<b>9411</b>	<b>9377</b>	<b>8547</b>	<b>8450</b>	<b>8333</b>	<b>8468</b>	<b>8355</b>	<b>8319</b>	<b>8198</b>
<b>Total Firm Surplus/Deficit</b>	<b>123</b>	<b>-14</b>	<b>-84</b>	<b>-86</b>	<b>-96</b>	<b>-239</b>	<b>-183</b>	<b>-321</b>	<b>-308</b>	<b>-464</b>

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