

Resource Adequacy Forum

Technical Committee

April 6, 2011

The Question

- Does the Resource Adequacy Assessment's treatment of natural gas fired combustion turbines align with the owner/operator's expectation?
 - o Annual and monthly operation
 - o Use during heavy load hours
 - o Fuel and operating limits

Data Sources

- March 2011 *Northwest Regional Forecast* – 10 year regional forecast – similar to individual integrated resource plan to assess regional need.
- Energy Information Administration – 2002 through 2009 annual energy – actual project output provided by owner/operator.

Natural Gas Combustion Turbines

Annual Energy (MWa) - 2015	NRF		Genesis	EIA- 2002-2009		
	Nameplate			Minimum	Average	Maximum
	MW					
Alden Bailey	11	2	0.2	0	0	0
Beaver	586	398	0.2	17	39	62
Beaver 8	25	0	-	-	-	-
Bennett Mountain	162	37	2.1	11	11	11
Chehalis Generating Facility	517	169	1.7	150	228	306
Coyote Springs I	266	209	-	112	154	180
Coyote Springs II	287	274	0.0	75	152	194
Danskin	90	21	0.5			
Danskin 1	170	39	0.4			
Encogen	159	163	0.1	11	50	107
Frederickson Generation Station	251	238	1.2	76	95	125
Fredonia 1 & 2	208	-	2.5	1	5	17
Fredonia 3 & 4	108	-	9.7			
Fredrickson 1 & 2	149	-	25.2	0	5	25
Goldendale	261	245	-	79	126	154
Hermiston Generating Project	469	287		350	388	420
Kettle Falls CT	7	9	-			
Lancaster Power Project	290	267	123.5	114	141	165
Langley Gulch	300	251	0.6			
Mint Farm Energy Center	305	250	0.4	-	80	159
Northeast 1 & 2	66	57	0.3	-	0	0
Pasco Generation Station	44	-	0.3	0	0	0
Port Westward	415	365	0.2	197	274	324
Rathdrum 1 & 2	167	154	1.7	0	2	5
River Road Generating Project	248	220	3.7	147	178	199
Sumas Energy	121	126	-	25	78	118
Whitehorn #2 & 3	149	-	0.8	-	1	2
Total	5,830	3,781	175	1,071	1,606	2,130

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