



BPA Imbalance Activity Report

January 2013

Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(34,153)	\$ (717)
under generation	24,685	\$ 681
other		
over generation	(5,043)	\$ (121)
under generation	1,567	\$ 48
total		
over generation	(39,196)	\$ (838)
under generation	26,252	\$ 729
total:	(12,944)	\$ (109)

Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(11,681)	\$ (274)
under scheduling	13,441	\$ 462
total:	1,760	\$ 188

Persistent Deviation

sec 1 & 2	events	MWh*	hours*	actual billing may differ	
				\$ thousand**	
Negative (generation greater than schedule)					
wind	14	1,549	43	\$	39
other	2	355	44	\$	9
total	16	1,904	87	\$	48
Positive (generation less than schedule)					
wind	17	2,025	55	\$	203
other	2	1,105	59	\$	111
total	19	3,130	114	\$	314

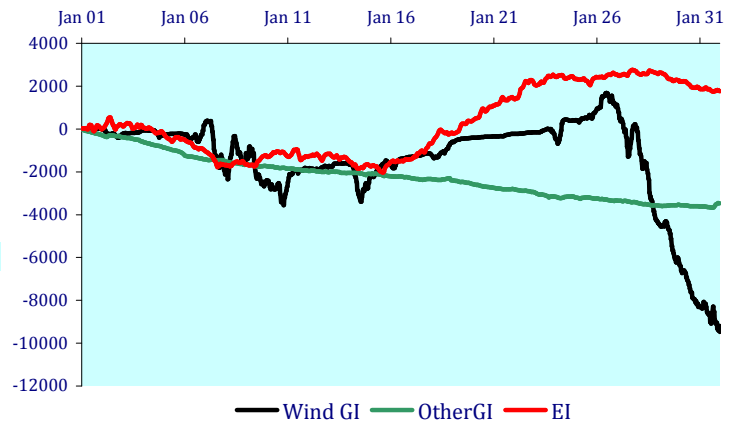
*exempt hours are excluded

**charge estimate does not include GI and test projects

Persistent Deviation events and waivers

	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2013
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
events													
total	25	24	40	45	41	46	49	25	47	31	52	35	
MWh negative	-1732	-1998	-3999	-2918	-3733	-1873	-2954	-1254	-2530	-3104	-4655	-1904	
MWh positive	1540	1165	3683	3378	2030	2559	1722	1345	2982	1073	2470	3130	
waiver requests													
total	4	17	21	4		1		1					
MWh negative	-194	-390	-1156					361					
MWh positive	698	3309	3341	1184		784							
granted waivers (full)													
total	3	17	19	2									
MWh negative		-390	-1156										
MWh positive	698	3309	3097	394									
granted waivers (partial)													
total													
MWh negative													
MWh positive													

MWh of accumulated imbalance



Persistent Deviation Events

	3-hour	6-hour	12-hour	24-hour	total
Negative (generation greater than schedule)					
wind	10	4	0	0	14
other	0	0	0	0	0
load	1	0	0	1	2
Positive (generation less than schedule) **					
wind	12	5	0	0	17
other	0	0	0	0	0
load	0	1	0	1	2

Persistent Deviation events and waivers

	2011 feb	2011 mar	2011 apr	2011 may	2011 jun	2011 jul	2011 aug	2011 sep	2011 oct	2011 nov	2011 Dec	2012 Jan
events												
total	14	14	12	14	8	9	4	18	16	20	14	14
MWh negative	-904	-1623	-1735	-1359	-184	-736	-574	0	-5058	-2517	-4539	-476
MWh positive	2620	1822	652	1683	1511	1278	435	2254	262	2281	1526	855
waiver requests												
total			1		1					5	3	
MWh negative											-2171	
MWh positive			237		359				1,691	296		
granted waivers (full)												
total			1		1					4		
MWh negative												
MWh positive			237		359				1493			
granted waivers (partial)												
total												
MWh negative												
MWh positive												

BPA Imbalance Activity Report reference guide

Generation Imbalance

Imbalance = Estimated Generation - Actual Generation

over generation Estimated Generation < Actual Generation, negative value

under generation Estimated Generation > Actual Generation, positive value

Energy Imbalance

Imbalance = Actual Load - Scheduled Load

over scheduling Actual Load < Scheduled Load, negative value

under scheduling Actual Load > Scheduled Load, positive value

Persistent Deviation

Definition

section 1 & 2

All hours or schedule periods in which either a negative or positive deviation exceeds both 15 % of schedule and 20 MW for three consecutive hours or more or both 7.5 % of schedule and 10 MW for six consecutive hours or more or both 1.5 % of schedule and 5 MW for twelve consecutive hours or more or both 1.5 % of schedule and 2 MW for twenty-four consecutive hours or more in the same directions.

section 3 A pattern of either positive or negative deviation that occurs generally or at specific times of day.

Penalty

Negative No credit is given for negative deviation.

Positive For positive deviation, the charge is the greater of 125% of BPA's highest incremental cost that occurs during that day or 100 mills per kilowatt-hour.

**charge estimate excludes test projects* New projects in test mode (up to 90 days) are exempt from the Persistent Deviation Penalty charge. However, Persistent Deviation events are still tracked.

***charge estimate does not include GI* The Persistent Deviation section of this report shows the penalty component of the charge, i.e. \$100/MWh less GI rate