



BPA Imbalance Activity Report

February 2013

Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(48,402)	\$ (1,100)
under generation	35,534	\$ 963
other		
over generation	(2,737)	\$ (73)
under generation	2,484	\$ 85
total		
over generation	(51,139)	\$ (1,173)
under generation	38,018	\$ 1,048
total:	(13,121)	\$ (125)

Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(11,062)	\$ (255)
under scheduling	9,921	\$ 281
total:	(1,141)	\$ 26

Persistent Deviation

sec 1 & 2	events	MWh*	hours*	\$ thousand**
Negative (generation greater than schedule)				
wind	17	1,335	43	\$ 37
other	1	152	13	\$ 4
total	18	1,487	56	\$ 41
Positive (generation less than schedule)				
wind	14	1,306	42	\$ 131
other	3	261	26	\$ 26
total	17	1,567	68	\$ 157

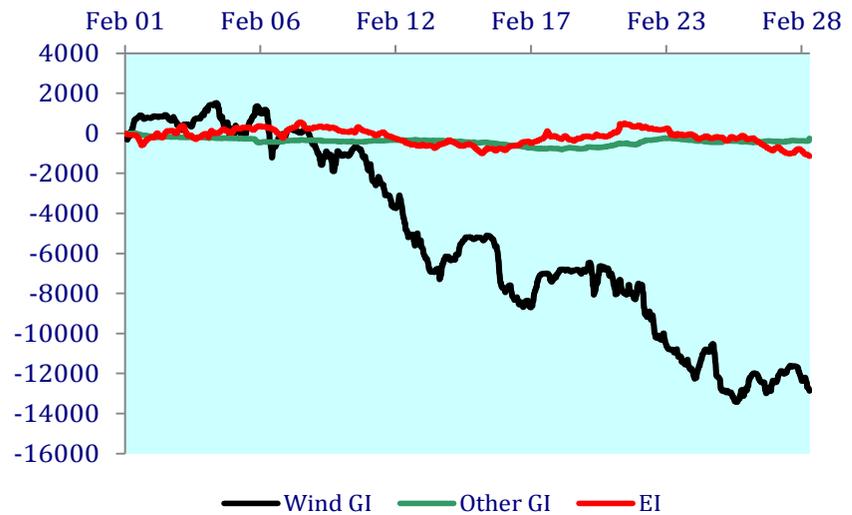
*exempt hours are excluded

**charge estimate does not include GI and test projects

Persistent Deviation events and waivers

	2012 Mar	2012 Apr	2012 May	2012 Jun	2012 Jul	2012 Aug	2012 Sep	2012 Oct	2012 Nov	2012 Dec	2013 Jan	2013 Feb
events												
total	24	40	45	41	46	49	25	47	31	52	35	35
MWh negative	-1998	-3999	-2918	-3733	-1873	-2954	-1254	-2530	-3104	-4655	-1904	-1487
MWh positive	1165	3683	3378	2030	2559	1722	1345	2982	1073	2470	3130	1567
waiver requests												
total	17	21	4		1		1				2	
MWh negative	-390	-1156					361					
MWh positive	3309	3341	1184		784						1195	
granted waivers (full)												
total	17	19	2									
MWh negative	-390	-1156										
MWh positive	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	14	3	0	0	17
other	0	0	1	0	1
load	0	0	0	0	0
Positive (generation less than schedule) **					
wind	11	3	0	0	14
other	1	0	1	0	2
load	0	0	1	0	1

Persistent Deviation events and waivers

	2011 mar	2011 apr	2011 may	2011 jun	2011 jul	2011 aug	2011 sep	2011 oct	2011 nov	2011 Dec	2012 Jan	2012 Feb
events												
total	14	12	14	8	9	4	18	16	20	14	14	25
MWh negative	-1623	-1735	-1359	-184	-736	-574	0	-5058	-2517	-4539	-476	-1732
MWh positive	1822	652	1683	1511	1278	435	2254	262	2281	1526	855	1540
waiver requests												
total		1		1					5	3		4
MWh negative										-2171		-194
MWh positive		237		359					1,691	296		698
granted waivers (full)												
total		1		1					4			3
MWh negative												
MWh positive		237		359					1493			698
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