



BPA Imbalance Activity Report

November 2012

Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(29,472)	\$ (630)
under generation	32,102	\$ 857
other		
over generation	(2,849)	\$ (59)
under generation	4,681	\$ 133
total		
over generation	(32,321)	\$ (689)
under generation	36,783	\$ 990
total:	4,462	\$ 301

Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(12,138)	\$ (272)
under scheduling	11,818	\$ 359
total:	(320)	\$ 87

Persistent Deviation

sec 1 & 2	events	MWh*	hours*	\$ thousand**
Negative (generation greater than schedule)				
wind	15	2,101	33	\$ 40
other	7	1,003	92	\$ 19
total	22	3,104	125	\$ 59
Positive (generation less than schedule)				
wind	5	427	10	\$ 42
other	4	646	70	\$ 63
total	9	1,073	80	\$ 105

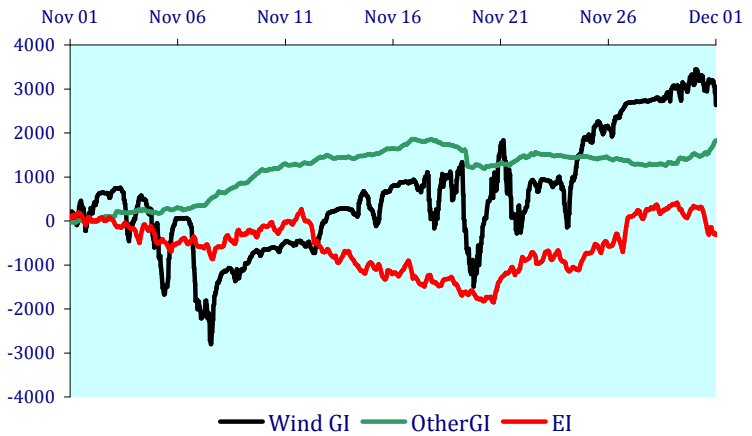
*exempt hours are excluded

**charge estimate does not include GI and test projects

Persistent Deviation events and waivers

	2011	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
events												
total	14	14	25	24	40	45	41	46	49	25	47	31
MWh negative	-4539	-476	-1732	-1998	-3999	-2918	-3733	-1873	-2954	-1254	-2530	-3104
MWh positive	1526	855	1540	1165	3683	3378	2030	2559	1722	1345	2982	1073
waiver requests												
total	3		4	17	21	4		1		1		
MWh negative	-2171		-194	-390	-1156					361		
MWh positive	296		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	15	0	0	0	15
other	1	0	0	2	3
load	1	1	2	0	4
Positive (generation less than schedule) **					
wind	5	0	0	0	5
other	0	1	0	1	2
load	1	0	0	1	2

Persistent Deviation events and waivers

	2010	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011
	dec	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov
events												
total	6	10	14	14	12	14	8	9	4	18	16	20
MWh negative	-623	-884	-904	-1623	-1735	-1359	-184	-736	-574	0	-5058	-2517
MWh positive	723	818	2620	1822	652	1683	1511	1278	435	2254	262	2281
waiver requests												
total					1		1					5
MWh negative												
MWh positive					237		359					1,691
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