



BPA Imbalance Activity Report

October 2013

Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(26,093)	\$ (662)
under generation	21,202	\$ 649
other		
over generation	(3,162)	\$ (112)
under generation	3,920	\$ 165
total		
over generation	(29,255)	\$ (775)
under generation	25,122	\$ 814
total:	(4,132)	\$ 39

Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(9,534)	\$ (269)
under scheduling	9,308	\$ 344
total:	(227)	\$ 75

Persistent Deviation

sec 1, 2	events	MWh*	hours*	\$ thousand**
Negative (generation greater than schedule)				
wind	17	1278	34	\$ 23
other	0	0	0	\$ -
load	0	0	0	\$ -
total	17	1278	34	\$ 23
Positive (generation less than schedule)				
wind	16	755	14	\$ 54
other	2	236	44	\$ 16
load	2	445	6	\$ 30
total	20	1436	64	\$ 100

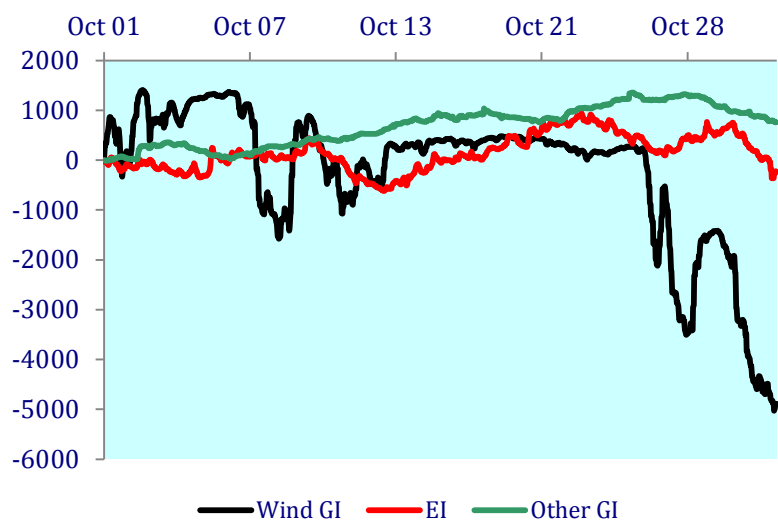
*exempt hours are excluded

**charge estimate does not include GI and test projects

Persistent Deviation events and waivers

	2012 Nov	2012 Dec	2013 Jan	2013 Feb	2013 March	2013 April	2013 May	2013 Jun	2013 Jul	2013 Aug	2013 Sep	2013 Oct
events												
total	31	52	35	35	26	30	50	30	60	34	41	37
MWh negative	-3104	-4655	-1904	-1487	-1011	-1526	-4880	-1495	-2480	-1943	-3297	1278
MWh positive	1073	2470	3130	1567	1393	2122	1372	1289	2867	1514	2095	1436
waiver requests												
total		6	2			5	1					
MWh negative			1037			-958	-286					
MWh positive		899	108			90						
granted waivers (full)												
total		3	2			1						
MWh negative		261	1037			-479						
MWh positive			108									
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	1	1	0	17
other	0	0	0	0	0
load	0	0	0	0	0
Positive (generation less than schedule) **					
wind	15	1	0	0	16
other	1	0	0	1	2
load	2	0	0	0	2

Persistent Deviation events and waivers

	2011 Oct	2011 Nov	2011 Dec	2012 Jan	2012 Feb	2012 Mar	2012 Apr	2012 Jun	2012 Jul	2012 Aug	2012 Sep	2012 Oct
events												
total	20	14	14	25	24	40	45	41	46	49	25	47
MWh negative	-2517	-4539	-476	-1732	-1998	-3999	-2918	-3733	-1873	-2954	-1254	-2530
MWh positive	2281	1526	855	1540	1165	3683	3378	2030	2559	1722	1345	2982
waiver requests												
total	5	3		4	17	21	4		2		1	1
MWh negative		-2171		-194	-390	-1156					361	26
MWh positive	1,691	296		698	3309	3341	1184		834			
granted waivers (full)												
total	4			3	17	19	2					
MWh negative					-390	-1156						
MWh positive	1493			698	3309	3097	394					
granted waivers (partial)												
total									1			
MWh negative												
MWh positive									50			

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