



# BPA Imbalance Activity Report

## March 2013

### Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(44,990)	\$ (1,040)
under generation	36,274	\$ 1,055
other		
over generation	(3,770)	\$ (106)
under generation	3,121	\$ 115
total		
over generation	(48,759)	\$ (1,146)
under generation	39,395	\$ 1,170
<b>total:</b>	<b>(9,365)</b>	<b>\$ 24</b>

### Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(15,748)	\$ (403)
under scheduling	10,719	\$ 342
<b>total:</b>	<b>(5,029)</b>	<b>\$ (61)</b>

### Persistent Deviation

sec 1 & 2	events	MWh*	hours*	\$ thousand**
Negative (generation greater than schedule)				
wind	13	1011	32	\$ 23,298
other	0	0	0	\$ -
<b>total</b>	<b>13</b>	<b>1011</b>	<b>32</b>	<b>\$ 23,298</b>
Positive (generation less than schedule)				
wind	11	1159	26	\$ 87,870
other	2	234	33	\$ 18,304
<b>total</b>	<b>13</b>	<b>1393</b>	<b>59</b>	<b>\$ 106,173</b>

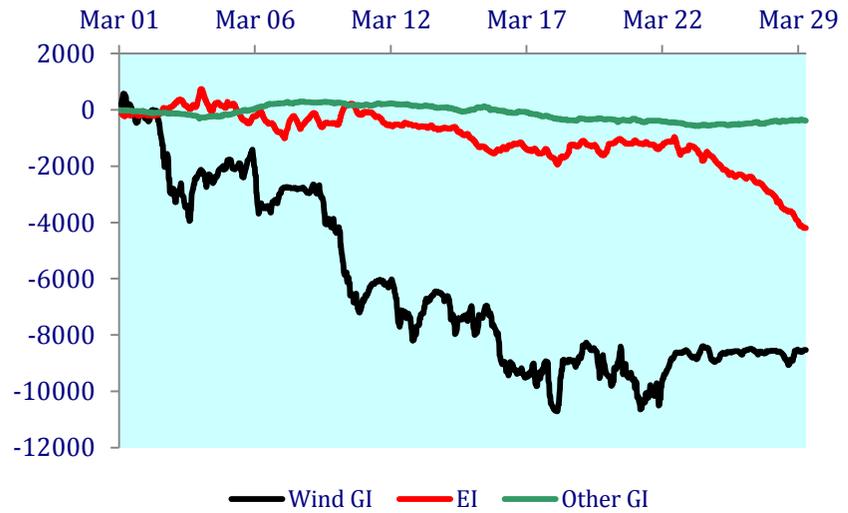
\*exempt hours are excluded

\*\*charge estimate does not include GI and test projects

### Persistent Deviation events and waivers

	2012 Apr	2012 May	2012 Jun	2012 Jul	2012 Aug	2012 Sep	2012 Oct	2012 Nov	2012 Dec	2013 Jan	2013 Feb	2013 March
events												
total	40	45	41	46	49	25	47	31	52	35	35	26
MWh negative	-3999	-2918	-3733	-1873	-2954	-1254	-2530	-3104	-4655	-1904	-1487	-1011
MWh positive	3683	3378	2030	2559	1722	1345	2982	1073	2470	3130	1567	1393
waiver requests												
total	21	4		1		1			1	2		
MWh negative	-1156					361						
MWh positive	3341	1184		784					319	1195		
granted waivers (full)												
total	19	2										
MWh negative	-1156											
MWh positive	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	12	1	0	0	13
other	0	0	0	0	0
load	0	0	0	0	0
Positive (generation less than schedule) **					
wind	10	1	0	0	11
other	0	0	0	0	0
load	0	1	0	1	2

## Persistent Deviation events and waivers

	2011 Apr	2011 May	2011 Jun	2011 Jul	2011 Aug	2011 Sep	2011 Oct	2011 Nov	2011 Dec	2012 Jan	2012 Feb	2012 Mar
<b>events</b>												
total	12	14	8	9	4	18	16	20	14	14	25	24
MWh negative	-1735	-1359	-184	-736	-574	0	-5058	-2517	-4539	-476	-1732	-1998
MWh positive	652	1683	1511	1278	435	2254	262	2281	1526	855	1540	1165
<b>waiver requests</b>												
total	1		1					5	3		4	17
MWh negative									-2171		-194	-390
MWh positive	237		359					1,691	296		698	3309
<b>granted waivers (full)</b>												
total	1		1					4			3	17
MWh negative												-390
MWh positive	237		359					1493			698	3309
<b>granted waivers (partial)</b>												
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