



# BPA Imbalance Activity Report

## March 2012

### Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(55,345)	\$ (719)
under generation	48,562	\$ 632
other		
over generation	(4,581)	\$ (65)
under generation	2,575	\$ 37
total		
over generation	(59,926)	\$ (784)
under generation	51,138	\$ 669
<b>total:</b>	<b>(8,789)</b>	<b>\$ (115)</b>

### Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(15,185)	\$ (199)
under scheduling	9,085	\$ 137
<b>total:</b>	<b>(6,100)</b>	<b>\$ (62)</b>

### Persistent Deviation

actual billing may differ

sec 1 & 2	events	MWh	\$ thousand*
Negative (generation greater than schedule)			
wind	9	(1,130)	\$ 17
other	3	(868)	\$ 13
<b>total</b>	<b>12</b>	<b>(1,998)</b>	<b>\$ 30</b>
Positive (generation less than schedule)**			
wind	12	1,165	\$ 95
other	-	-	\$ -
<b>total</b>	<b>12</b>	<b>1,165</b>	<b>\$ 95</b>

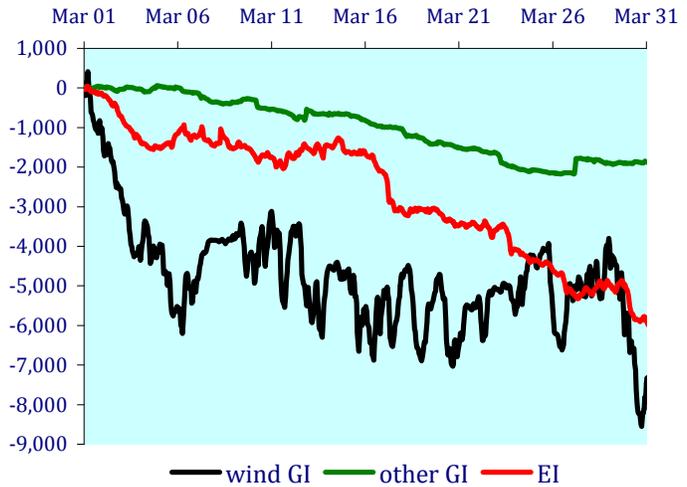
\*charge estimate excludes test projects

\*\*charge estimate does not include GI

### Persistent Deviation events and waivers

	2011	2011	2011	2011	2011	2011	2011	2011	2011	2012	2012	2012
	apr	may	jun	jul	aug	sep	oct	nov	dec	jan	feb	mar
events												
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
waiver requests												
total	1		1					5	3		3	
MWh negative									-2171			
MWh positive	237		359					1691	296		698	
granted waivers (full)												
total	1		1					4				
MWh negative												
MWh positive	237		359					1493				
granted waivers (partial)												
total												
MWh negative												
MWh positive												

MWh of accumulated imbalance



sec 3	events	MWh	Charge*
Negative (generation greater than schedule)			
wind	-	-	-
other	-	-	-
<b>total</b>	<b>-</b>	<b>-</b>	<b>-</b>
Positive (generation less than schedule)**			
wind	-	-	-
other	-	-	-
<b>total</b>	<b>-</b>	<b>-</b>	<b>-</b>

## Persistent Deviation events and waivers

	2010 apr	2010 may	2010 jun	2010 jul	2010 aug	2010 sep	2010 oct	2010 nov	2010 dec	2011 jan	2011 feb	2011 mar
events												
total	44	38	37	30	26	11	8	12	6	10	14	14
MWh negative	-5389	-7406	-5102	-4401	-3395	-1495	-765	-1085	-623	-884	-904	-1623
MWh positive	7062	5118	5181	4078	3251	1313	2768	1874	723	818	2620	1822
waiver requests												
total	2		1	1								
MWh negative												-582
MWh positive	503		191									
granted waivers (full)												
total												
MWh negative												
MWh positive												
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