



# BPA Imbalance Activity Report

## September 2012

### Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(30,584)	\$ (581)
under generation	33,105	\$ 784
other		
over generation	(3,359)	\$ (63)
under generation	5,174	\$ 137
total		
over generation	(33,943)	\$ (644)
under generation	38,279	\$ 921
<b>total:</b>	<b>4,336</b>	<b>\$ 277</b>

### Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(10,079)	\$ (201)
under scheduling	6,323	\$ 164
<b>total:</b>	<b>(3,756)</b>	<b>\$ (37)</b>

### Persistent Deviation

sec 1 & 2	events	MWh*	\$ thousand**
Negative (generation greater than schedule)			
wind	11	893	\$ 11
other	1	361	\$ 5
<b>total</b>	<b>12</b>	<b>1,254</b>	<b>\$ 16</b>
Positive (generation less than schedule)			
wind	13	1,345	\$ 132
other	0	-	-
<b>total</b>	<b>13</b>	<b>1,345</b>	<b>\$ 132</b>

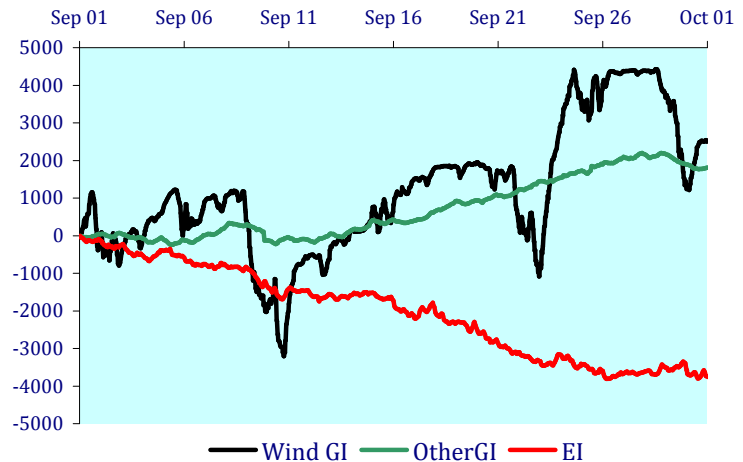
\*exempt hours are excluded

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

### Persistent Deviation events and waivers

	2011 oct	2011 nov	2011 dec	2012 jan	2012 feb	2012 mar	2012 apr	2012 may	2012 jun	2012 jul	2012 Aug	2012 Sep
events												
total	16	20	14	14	25	24	40	45	41	46	49	25
MWh negative	-5058	-2517	-4539	-476	-1732	-1998	-3999	-2918	-3733	-1873	-2954	-1254
MWh positive	262	2281	1526	855	1540	1165	3683	3378	2030	2559	1722	1345
waiver requests												
total		5	3		4	17	20	2			1	3
MWh negative			-2171		-194	-390	-1156					
MWh positive		1,691	296		698	3309	3219	790			122	516
granted waivers (full)												
total		4			3			2				2
MWh negative												
MWh positive		1493			698			790				394
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	2010	2010	2011	2011	2011	2011	2011	2011	2011	2011	2011
	oct	nov	dec	jan	feb	mar	apr	may	jun	jul	aug	sep
events												
total	8	12	6	10	14	14	12	14	8	9	4	18
MWh negative	-765	-1085	-623	-884	-904	-1623	-1735	-1359	-184	-736	-574	0
MWh positive	2768	1874	723	818	2620	1822	652	1683	1511	1278	435	2254
waiver requests												
total							1		1			
MWh negative												
MWh positive							237		359			
granted waivers (full)												
total							1		1			
MWh negative												
MWh positive							237		359			
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.
<i>*charge estimate excludes test projects</i>	New projects in test mode (up to 90 days) are exempt from the Persistent Deviation Penalty charge. However, Persistent Deviation events are still tracked.
<i>**charge estimate does not include GI</i>	The Persistent Deviation section of this report shows the penalty component of the charge, i.e. \$100/MWh less GI rate