



# BPA Imbalance Activity Report

## July 2012

### Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(57,528)	\$ (428)
under generation	35,225	\$ 233
other		
over generation	(3,958)	\$ (26)
under generation	1,995	\$ 25
total		
over generation	(61,486)	\$ (454)
under generation	37,220	\$ 258
<b>total:</b>	<b>(24,266)</b>	<b>\$ (196)</b>

### Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(11,697)	\$ (64)
under scheduling	8,571	\$ 118
<b>total:</b>	<b>(3,126)</b>	<b>\$ 54</b>

### Persistent Deviation

sec 1 & 2	events	MWh	\$ thousand*
Negative (generation greater than schedule)			
wind	19	(1,437)	\$ 6
other	0	-	\$ -
<b>total</b>	<b>19</b>	<b>(1,437)</b>	<b>\$ 6</b>
Positive (generation less than schedule) **			
wind	21	2,321	\$ 10
other	1	87	\$ 0
<b>total</b>	<b>22</b>	<b>2,408</b>	<b>\$ 10</b>

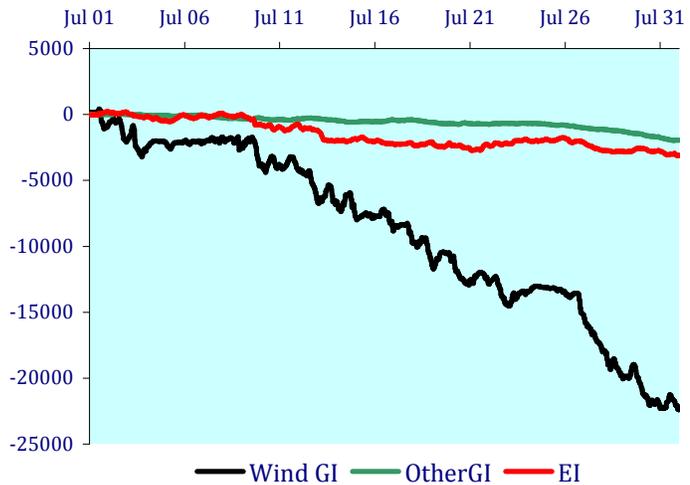
\*charge estimate excludes test projects

\*\*charge estimate does not include GI

### Persistent Deviation events and waivers

	2011	2011	2011	2011	2011	2012	2012	2012	2012	2012	2012	2012
	aug	sep	oct	nov	dec	jan	feb	mar	apr	may	jun	jul
events												
total	4	18	16	20	14	14	25	24	40	45	41	41
MWh negative	-574	0	-5058	-2517	-4539	-476	-1732	-1998	-3999	-2918	-3733	-1437
MWh positive	435	2254	262	2281	1526	855	1540	1165	3683	3378	2030	2407
waiver requests												
total				5	3		4	17	19	2		
MWh negative					-2171		-194	-390	-1156			
MWh positive				1,691	296		698	3309	3097	790		
granted waivers (full)												
total				4			3					
MWh negative												
MWh positive				1493			698					
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	2010	2010	2011	2011	2011	2011	2011	2011	2011
	aug	sep	oct	nov	dec	jan	feb	mar	apr	may	jun	jul
events												
total	26	11	8	12	6	10	14	14	12	14	8	9
MWh negative	-3395	-1495	-765	-1085	-623	-884	-904	-1623	-1735	-1359	-184	-736
MWh positive	3251	1313	2768	1874	723	818	2620	1822	652	1683	1511	1278
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