



# BPA Imbalance Activity Report

## October 2012

### Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(42,367)	\$ (955)
under generation	38,870	\$ 1,097
other		
over generation	(3,986)	\$ (93)
under generation	4,335	\$ 131
total		
over generation	(46,353)	\$ (1,049)
under generation	43,205	\$ 1,228
<b>total:</b>	<b>(3,148)</b>	<b>\$ 180</b>

### Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(11,968)	\$ (278)
under scheduling	10,828	\$ 346
<b>total:</b>	<b>(1,140)</b>	<b>\$ 68</b>

### Persistent Deviation

actual billing may differ

sec 1 & 2	events	MWh*	hours*	\$ thousand**
Negative (generation greater than schedule)				
wind	13	1,312	33	\$ 31
other	5	1,096	89	\$ 25
<b>total</b>	<b>18</b>	<b>2,530</b>		<b>\$ 56</b>
Positive (generation less than schedule)				
wind	26	2,518	72	\$ 246
other	3	340	52	\$ 33
<b>total</b>	<b>29</b>	<b>2,982</b>		<b>\$ 279</b>

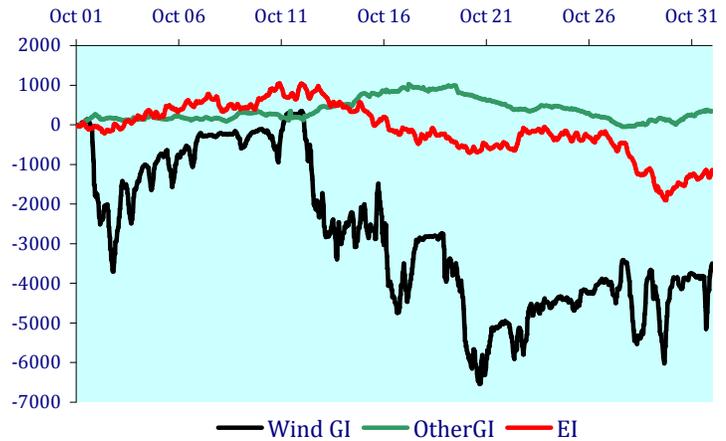
\*exempt hours are excluded

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

### Persistent Deviation events and waivers

	2011 nov	2011 dec	2012 jan	2012 feb	2012 mar	2012 apr	2012 may	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	-2408
MWh positive	2281	1526	855	1540	1165	3683	3378	2030	2559	1722	1345	2858
waiver requests												
total	5	3		4	17	21	4		1		1	
MWh negative		-2171		-194	-390	-1156					361	
MWh positive	1,691	296		698	3309	3341	1184		784			
granted waivers (full)												
total	4			3	17	19	2					
MWh negative					-390	-1156						
MWh positive	1493			698	3309	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	1	1
load	0	1	3	0	4
Positive (generation less than schedule)**					
wind	21	5	0	0	26
other	0	0	0	1	1
load	1	1	0	0	2

## Persistent Deviation events and waivers

	2010 nov	2010 dec	2011 jan	2011 feb	2011 mar	2011 apr	2011 may	2011 jun	2011 jul	2011 aug	2011 sep	2011 oct
events												
total	12	6	10	14	14	12	14	8	9	4	18	16
MWh negative	-1085	-623	-884	-904	-1623	-1735	-1359	-184	-736	-574	0	-5058
MWh positive	1874	723	818	2620	1822	652	1683	1511	1278	435	2254	262
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