



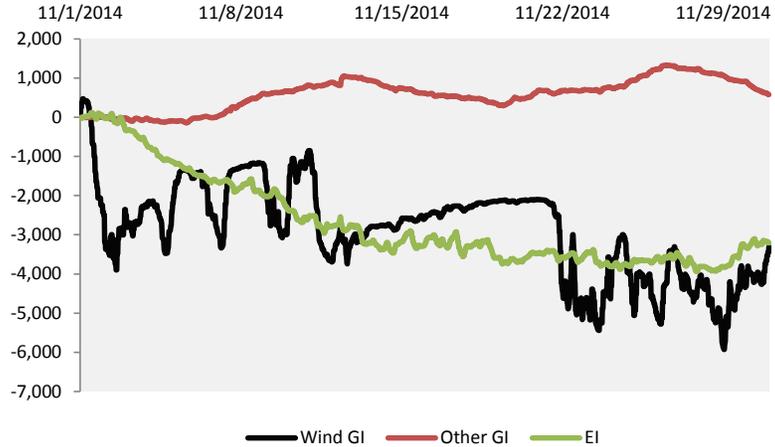
# BPA Imbalance Activity Report

## November 2014

### Generation Imbalance

		MWh	\$ K
Wind	neg	-81,995	(\$2,061)
Wind	pos	78,686	\$2,020
<b>Wind Total</b>		<b>-3,309</b>	<b>(\$41)</b>
Other	neg	-8,607	(\$252)
Other	pos	9,180	\$270
<b>Other Total</b>		<b>573</b>	<b>\$18</b>
<b>Grand Total</b>		<b>-2,735</b>	<b>(\$23)</b>

MWh of accumulated imbalance



### Energy Imbalance

		MWh	\$ K
Load	neg	-20,876	(\$638)
Load	pos	16,934	\$507
<b>Load Total</b>		<b>-3,942</b>	<b>(\$131)</b>
<b>Grand Total</b>		<b>-3,942</b>	<b>(\$131)</b>

### Persistent Deviation

		3-hr	6-hr	12-hr	24-hr	total	hours	MWh*	\$ K
neg	Wind	8				8	38	-2,733	(\$62)
neg	Other		1	4	6	11	201	-1,698	(\$47)
neg	Load				1	1	25	-114	(\$5)
<b>neg Total</b>		<b>8</b>	<b>1</b>	<b>4</b>	<b>7</b>	<b>20</b>	<b>264</b>	<b>-4,545</b>	<b>(\$114)</b>
pos	Wind	16	3			19	68	3,505	\$83
pos	Other								
pos	Load								
<b>pos Total</b>		<b>16</b>	<b>3</b>			<b>19</b>	<b>68</b>	<b>3,505</b>	<b>\$83</b>
<b>Grand Total</b>		<b>24</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>39</b>	<b>332</b>	<b>-1,040</b>	<b>(\$31)</b>

\*exempt hours are excluded  
actual billing may differ

### Persistent Deviation

Values	2014 Jan	2014 Feb	2014 Mar	2014 Apr	2014 May	2014 Jun	2014 Jul	2014 Aug	2014 Sep	2014 Oct	2014 Nov
Events	14	27	29	45	24	43	32	33	33	11	39
neg MWh	-1,214	-1,593	-2,650	-3,548	-2,240	-3,341	-2,425	-3,883	-4,567	-1,469	-4,545
pos MWh	1,107	2,761	2,177	3,900	1,893	3,796	2,537	2,985	3,224	1,229	3,505

Waiver Requests

total

neg MWh

pos MWh

granted waivers (full)

neg MWh

pos MWh

granted waivers (partial)

# BPA Imbalance Activity Report

## reference guide

### Generation Imbalance

Imbalance = Estimated Generation - Actual Generation

neg MWh	Estimated Generation < Actual Generation, negative value
pos MWh	Estimated Generation > Actual Generation, positive value

### Energy Imbalance

Imbalance = Actual Load - Scheduled Load

neg MWh	Actual Load < Scheduled Load, negative value
pos MWh	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

*EI and GI*

*neg* the sum of the negative imbalance from all customer, by category

*pos* the sum of the positive imbalance from all customer, by category