



BPA Imbalance Activity Report

December 2012

Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(52,558)	\$ (832)
under generation	48,546	\$ 963
other		
over generation	(4,219)	\$ (69)
under generation	4,222	\$ 105
total		
over generation	(56,777)	\$ (901)
under generation	52,768	\$ 1,068
total:	(4,009)	\$ 167

Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(19,109)	\$ (334)
under scheduling	8,549	\$ 201
total:	(10,560)	\$ (133)

Persistent Deviation

sec 1 & 2	events	MWh*	hours*	actual billing may differ	
				\$ thousand**	
Negative (generation greater than schedule)					
wind	17	2,230	38	\$	33
other	11	2,425	134	\$	45
total	28	4,655	172	\$	78
Positive (generation less than schedule)					
wind	22	2,236	53	\$	224
other	2	234	34	\$	23
total	24	2,470	87	\$	247

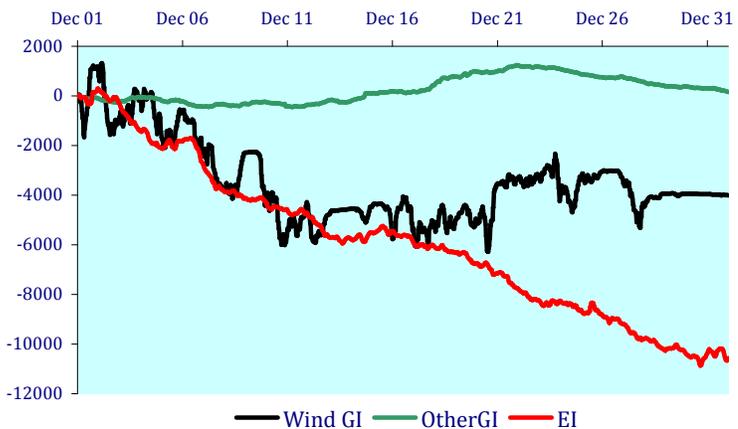
*exempt hours are excluded

**charge estimate does not include GI and test projects

Persistent Deviation events and waivers

	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
events												
total	14	25	24	40	45	41	46	49	25	47	31	52
MWh negative	-476	-1732	-1998	-3999	-2918	-3733	-1873	-2954	-1254	-2530	-3104	-4655
MWh positive	855	1540	1165	3683	3378	2030	2559	1722	1345	2982	1073	2470
waiver requests												
total		4	17	21	4		1		1			
MWh negative		-194	-390	-1156					361			
MWh positive		698	3309	3341	1184		784					
granted waivers (full)												
total		3	17	19	2							
MWh negative			-390	-1156								
MWh positive		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	14	1	0	0	15
other	0	0	0	0	0
load	0	3	8	0	11
Positive (generation less than schedule) **					
wind	21	0	1	0	22
other	1	0	0	0	1
load	0	0	0	1	1

Persistent Deviation events and waivers

	2011 jan	2011 feb	2011 mar	2011 apr	2011 may	2011 jun	2011 jul	2011 aug	2011 sep	2011 oct	2011 nov	2011 Dec
events												
total	10	14	14	12	14	8	9	4	18	16	20	14
MWh negative	-884	-904	-1623	-1735	-1359	-184	-736	-574	0	-5058	-2517	-4539
MWh positive	818	2620	1822	652	1683	1511	1278	435	2254	262	2281	1526
waiver requests												
total				1		1					5	3
MWh negative												-2171
MWh positive				237		359					1,691	296
granted waivers (full)												
total				1		1					4	
MWh negative												
MWh positive				237		359					1493	
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