



BPA Imbalance Activity Report

June 2013

Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(46,325)	\$ (1,048)
under generation	40,786	\$ 1,091
other		
over generation	(4,274)	\$ (172)
under generation	2,910	\$ 137
total		
over generation	(50,599)	\$ (1,220)
under generation	43,696	\$ 1,228
total:	(6,903)	\$ 8

Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(11,941)	\$ (244)
under scheduling	6,232	\$ 234
total:	(5,710)	\$ (10)

Persistent Deviation

sec 1, 2 & 3	events	MWh*	hours*	actual billing may differ	
					\$ thousand**
Negative (generation greater than schedule)					
wind	14	-1190	34	\$	(20)
other	0	0	0	\$	-
load	2	-304	28	\$	(3)
total	16	-1495	62	\$	(23)
Positive (generation less than schedule)					
wind	13	1166	28	\$	87
other	0	0	0	\$	-
load	1	124	6	\$	7
total	14	1289	34	\$	94

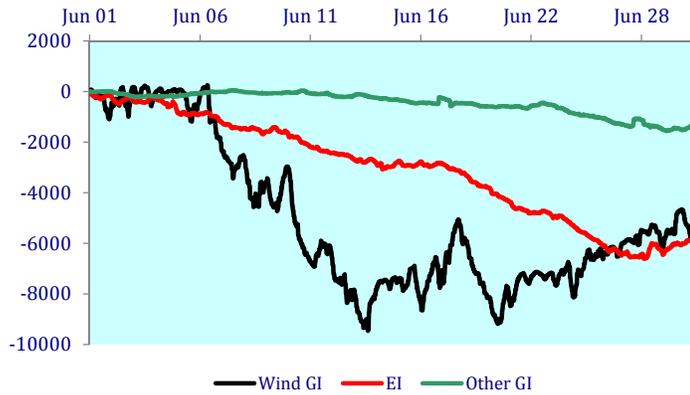
*exempt hours are excluded

**charge estimate does not include GI and test projects

Persistent Deviation events and waivers

	2012 Jul	2012 Aug	2012 Sep	2012 Oct	2012 Nov	2012 Dec	2013 Jan	2013 Feb	2013 Mar	2013 Apr	2013 May	2013 Jun
events												
total	46	49	25	47	31	52	35	35	26	30	50	30
MWh negative	-1873	-2954	-1254	-2530	-3104	-4655	-1904	-1487	-1011	-1526	-4880	-1495
MWh positive	2559	1722	1345	2982	1073	2470	3130	1567	1393	2122	1372	1289
waiver requests												
total	2		1	1		6	2		2	5	1	
MWh negative			-361	-26				-1037	-479	-958	-286	
MWh positive	834					899	108			90		
granted waivers (full)												
total						3	2			1		
MWh negative						-261	-1037			-479		
MWh positive							108					
granted waivers (partial)												
total	1											
MWh negative												
MWh positive	50											

MWh of accumulated imbalance



Persistent Deviation Events

	3-hour	6-hour	12-hour	24-hour	Pattern	total
Negative (generation greater than schedule)						
wind	9	3	0	0	2	14
other	0	0	0	0	0	0
load	1	0	0	1	0	2
Positive (generation less than schedule) **						
wind	13	0	0	0	0	13
other	0	0	0	0	0	0
load	0	1	0	0	0	1

Persistent Deviation events and waivers

	2011 Jul	2011 Aug	2011 Sep	2011 Oct	2011 Nov	2011 Dec	2012 Jan	2012 Feb	2012 Mar	2012 Apr	2012 May	2012 Jun
events												
total	9	4	18	16	20	14	14	25	24	40	45	41
MWh negative	-736	-574	0	-5058	-2517	-4539	-476	-1732	-1998	-3999	-2918	-3733
MWh positive	1278	435	2254	262	2281	1526	855	1540	1165	3683	3378	2030
waiver requests												
total					5	3		4	17	21		4
MWh negative						-2171		-194	-390	-1156		
MWh positive					1691	296		698	3309	3341	1184	
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												

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

section 3 A pattern of either positive or negative deviation that occurs generally or at specific times of day. For reporting purposes, a the number of Pattern Persistent Deviation Events is equal to the number of days in which a zig-zag scheduling pattern was identified.

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* The Persistent Deviation section of this report shows the penalty component of the charge, i.e. \$100/MWh less GI rate.