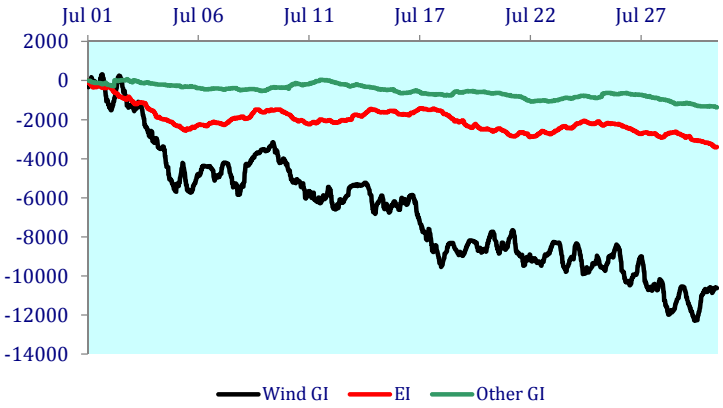
BPA Imbalance Activity Report
July 2013

Generation Imbalance

	MWh		$ thousand
wind			
over generation	(53,759)	$	(1,290)
under generation	42,237	$	1,239
other			
over generation	(5,324)	$	(173)
under generation	3,902	$	193
total			
over generation	(59,083)	$	(1,463)
under generation	46,139	$	1,432
total:	**(12,944)**		**$ (31)**

MWh of accumulated imbalance



Energy Imbalance

	MWh		$ thousand
total			
over scheduling	(11,393)	$	(251)
under scheduling	7,767	$	275
total:	**(3,626)**	**$**	**24**

Persistent Deviation

sec 1, 2 & 3	events	MWh*	hours*
Negative (generation greater than schedule)			
wind	27	-2221	50
other	0	0	0
load	3	-259	23
total	30	-2480	73
Positive (generation less than schedule)			
wind	29	2649	64
other	1	218	28
load	0	0	0
total	30	2867	92

Persistent Deviation Events

	3-hour	6-hour	12-hour	24-hour	Pattern	total
Negative (generation greater than schedule)						
wind	25	1	0	0	1	27
other	0	0	0	0	0	0
load	1	1	1	0	0	3
Positive (generation less than schedule) **						
wind	27	2	0	0	0	29
other	0	0	0	1	0	1
load	0	0	0	0	0	0

**exempt hours are excluded*
***charge estimate does not include GI and test projects*

Persistent Deviation events and waivers

	2012 Aug	2012 Sep	2012 Oct	2012 Nov	2012 Dec	2013 Jan	2013 Feb	2013 Mar	2013 Apr	2013 May	2013 Jun	2013 Jul
events												
total	49	25	47	31	52	35	35	26	30	50	30	60
MWh negative	-2954	-1254	-2530	-3104	-4655	-1904	-1487	-1011	-1526	-4880	-1495	-2480
MWh positive	1722	1345	2982	1073	2470	3130	1567	1393	2122	1372	1289	2867
waiver requests												
total		1	1		6	2			2	1		
MWh negative		-361	-26			-1037			-734	-286		
MWh positive					899	108			90			
granted waivers (full)												
total					3	2						
MWh negative					261	1037						
MWh positive						108						
granted waivers (partial)												
total												
MWh negative												
MWh positive												

Persistent Deviation events and waivers

	2011 Aug	2011 Sep	2011 Oct	2011 Nov	2011 Dec	2012 Jan	2012 Feb	2012 Mar	2012 Apr	2012 May	2012 Jun	2012 Jul
events												
total	4	18	16	20	14	14	25	24	40	45	41	46
MWh negative	-574	0	-5058	-2517	-4539	-476	-1732	-1998	-3999	-2918	-3733	-1873
MWh positive	435	2254	262	2281	1526	855	1540	1165	3683	3378	2030	2559
waiver requests												
total				5	3		4	17	21	4		2
MWh negative					-2171		-194	-390	-1156			
MWh positive				1691	296		698	3309	3341	1184		834
granted waivers (full)												
total				4			3	17	19	2		
MWh negative								-390	-1156			
MWh positive				1493			698	3309	3097	394		
granted waivers (partial)												
total												1
MWh negative												
MWh positive												50

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.