



BPA Imbalance Activity Report

November 2011

Generation Imbalance

	MWh	\$ thousand
wind		
over generation	(33,485)	\$ (887)
under generation	31,289	\$ 802
other		
over generation	(4,598)	\$ (123)
under generation	3,266	\$ 89
total		
over generation	(38,082)	\$ (1,010)
under generation	34,555	\$ 890
total:	(3,528)	\$ (119)

Energy Imbalance

	MWh	\$ thousand
total		
over scheduling	(12,755)	\$ (354)
under scheduling	10,727	\$ 304
total:	(2,028)	\$ (50)

Persistent Deviation

actual billing may differ

sec 1 & 2	events	MWh	\$ thousand*
Negative (generation greater than schedule)			
wind	3	(279)	\$ 8
other	8	(2,238)	\$ 64
total	11	(2,517)	\$ 72
Positive (generation less than schedule)**			
wind	4	589	\$ 38
other	5	1,692	\$ 110
total	9	2,281	\$ 148

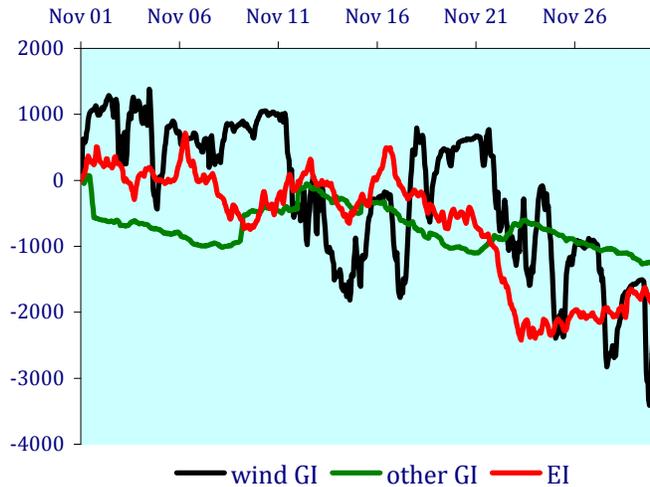
*charge estimate excludes test projects

**charge estimate does not include GI

Persistent Deviation events and waivers

	2010	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011
	dec	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov
events												
total	6	10	14	14	12	14	8	9	4	18	16	20
MWh negative	-623	-884	-904	-1623	-1735	-1359	-184	-736	-574	0	-5058	-2517
MWh positive	723	818	2620	1822	652	1683	1511	1278	435	2254	262	2281
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												

MWh of accumulated imbalance



sec 3	events	MWh	Charge*
Negative (generation greater than schedule)			
wind	-	-	-
other	-	-	-
total	-	-	-
Positive (generation less than schedule)**			
wind	-	-	-
other	-	-	-
total	-	-	-

Persistent Deviation events and waivers

	2009 dec	2010 jan	2010 feb	2010 mar	2010 apr	2010 may	2010 jun	2010 jul	2010 aug	2010 sep	2010 oct	2010 nov
events												
total	55	30	19	76	44	38	37	30	26	11	8	12
MWh negative	-6734	-3597	-1819	-14287	-5389	-7406	-5102	-4401	-3395	-1495	-765	-1085
MWh positive	7570	4877	2665	9101	7062	5118	5181	4078	3251	1313	2768	1874
waiver requests												
total	22	4	4	29	2		1	1				
MWh negative	-4284	-719	-133	-3795					-582			
MWh positive	807	120	636	1888	503		191					
granted waivers (full)												
total	3											
MWh negative	-272											
MWh positive	169											
granted waivers (partial)												
total	15											
MWh negative	-857											
MWh positive	231											

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 four 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