

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

Date: April 9, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		Unit-III under annual maintenance. Unit-IV & II Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown & 400kV THP_SIL fdr.IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	32.56	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	162.60	+	
		Unit- V	99.38	400kV Malbase - Siliguri	2.36	-	
		Unit- VI	99.21				
		Total	198.59	Error At Station/Auxiliary Consumption/Losses	3.43		
2	CHP	Unit- I	49.19	220kV CHP - Birpara Fdr- I	0.00		Unit-II & IV under annual maintenance
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	44.28	220kV CHP - Malbase Fdr- III	5.78	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	67.75	+	
				220kV Malbase - Birpara Fdr.	-8.73	-	
				66kV CHP - Chumdo Fdr.	17.87	+	
				66kV CHP - Gedu Fdr.	4.59	+	
		Total	93.47	Error At Station/Auxiliary Consumption/Losses	-3.49		
3	BHP (U/S)	Unit- I	4.37	220kV BHP - Semtokha Fdr.	-26.35	-	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.32	+	
		Total	4.37	220kV BHP - Tsirang Fdr.	29.95	+	
	BHP (L/S)	Unit- I	9.42	5MVA, 66/11kV TFR	0.85	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	9.42	Error At Station/Auxiliary Consumption/Losses	0.02		
4	DHPC	Unit-I	16.30	220kV DHPC - Tsirang Fdr.	16.03	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.20		
		Total	16.30	Error At Station/Auxiliary Consumption/Losses	0.07		
5	KHP	Unit- I	15.55	132kV KHP - Nangkhor Fdr- I	20.88	+	Unit-III under maintenance. Unit-IV Standby.
		Unit-II	15.66	132kV KHP - Kilikhar Fdr- II	9.20	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-5.40	-	
				132kV Motanga - Rangia Fdr.	24.51	+	
				220kV Tsirang - Jigmeling	42.30	+	
		Total	31.21	Error At Station/Auxiliary Consumption/Losses	0.63		

Note: Load summary on April 09, 2018 at 19:00hrs.

Sl. No	Region	Total Generation (MW)	Total Load (Generation - Export, MW)	Total Load (Feeder Summation, MW)	Total Export/Import	Load Balance
1	Western Grid	322.15	253.66	253.63	26.19	0.03
2	Eastern Grid	31.21	54.40	53.77	19.11	0.63
Total		353.36	308.06	307.40	45.30	0.66

Note: Load Summary on April 09, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.18	221.88	279.08
2	Eastern Grid	56.83	56.83	63.98
National		268.01	278.71	338.53

Notes:-

1. The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
 - i) Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
 - ii) The clocks of all the locations are not synchronized
2. This report is generated to give an idea of the generation & load flow for the system at a particular instant.

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

Date: April 10, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		Unit-III under annual maintenance. Unit-IV& II Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown. 400kV THP_SIL IV Standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	33.39	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	122.87	+	
		Unit- V	79.57	400kV Malbase - Siliguri	11.33	+	
		Unit- VI	80.36				
		Total	159.93	Error At Station/Auxiliary Consumption/Losses	3.67		
2	CHP	Unit- I	40.33	220kV CHP - Birpara Fdr- I	-4.64	-	Unit-II & IV under annual maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-4.56	-	
		Unit- III	44.41	220kV CHP - Malbase Fdr- III	27.22	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	45.12	+	
				220kV Malbase - Birpara Fdr.	-28.44	-	
				66kV CHP - Chumdo Fdr.	12.30	+	
				66kV CHP - Gedu Fdr.	6.90	+	
		Total	84.74	Error At Station/Auxiliary Consumption/Losses	1.86		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-16.47	+	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	5.87	+	
		Total	0.00	220kV BHP - Tsirang Fdr.	12.34	+	
	BHP (L/S)	Unit- I	2.87	5MVA, 66/11kV TFR	0.49	+	
		Total	2.87	Error At Station/Auxiliary Consumption/Losses	0.64		
4	DHPC	Unit-I	15.78	220kV DHPC - Tsirang Fdr.	15.55	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.78	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	16.22	132kV KHP - Nangkhor Fdr- I	28.51	+	Unit-IV standby Unit-III under maintenance. 132kV GEL_SAL line under shutdown.
		Unit-II	16.49	132kV KHP - Kilikhar Fdr- II	3.27	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	0.00		
				132kV Motanga - Rangia Fdr.	15.41	+	
				220kV Tsirang - Jigmeling	26.71	+	
		Total	32.71	Error At Station/Auxiliary Consumption/Losses	0.53		

Note: Load summary on April 10, 2018 at 09:00hrs.

Sl. No	Region	Total Generation (MW)	Total Load (Generation - Export, MW)	Total Load (Feeder Summation, MW)	Total Export/Import	Load Balance
1	Western Grid	263.32	229.53	223.13	7.08	6.40
2	Eastern Grid	32.71	44.01	43.48	15.41	0.53
	Total	296.03	273.54	266.61	22.49	6.93

Note: Load Summary on April 10, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	206.46	246.14	279.08
2	Eastern Grid	40.13	60.04	63.98
	National	246.59	306.18	338.53

Notes:-

1. The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
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