

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 6, 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	18.92	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	128.16	+	
		Unit- V	69.25	400kV Malbase - Siliguri	-7.24	-	
		Unit- VI	80.42				
		Total	149.67	Error At Station/Auxiliary Consumption/Losses	2.59		
2	CHP	Unit- I	41.08	220kV CHP - Birpara Fdr- I	-7.66	-	Unit-II & IV under annual maintenance
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-7.72	-	
		Unit- III	44.48	220kV CHP - Malbase Fdr- III	22.57	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	51.22	+	
				220kV Malbase - Birpara Fdr.	-29.88	-	
				66kV CHP - Chumdo Fdr.	19.03	+	
				66kV CHP - Gedu Fdr.	5.26	+	
				3x3MVA, 66/11kV TFR	0.99	+	
		Total	85.56	Error At Station/Auxiliary Consumption/Losses	1.87		
3	BHP (U/S)	Unit- I	4.36	220kV BHP - Semtokha Fdr.	-11.39	-	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.92	+	
		Total	4.36	220kV BHP - Tsirang Fdr.	13.07	+	
	BHP (L/S)	Unit- I	9.37	5MVA, 66/11kV TFR	1.04	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	9.37	Error At Station/Auxiliary Consumption/Losses	0.09		
4	DHPC	Unit-I	15.50	220kV DHPC - Tsirang Fdr.	15.23	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.20	+	
		Total	15.50	Error At Station/Auxiliary Consumption/Losses	0.07		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	22.12	+	Unit-III under maintenance. Unit-I Standby.
		Unit-II	16.36	132kV KHP - Kilikhar Fdr- II	9.57	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.04	132kV Gelephu - Salakati Fdr.	-19.43	-	
				132kV Motanga - Rangia Fdr.	12.59	+	
				220kV Tsirang - Jigmeling	25.00	+	
		Total	32.40	Error At Station/Auxiliary Consumption/Losses	0.11		

Note: Load summary on April 06, 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	264.46	273.04	268.42	-33.58	4.62
2	Eastern Grid	32.40	64.24	64.13	-6.84	0.11
	Total	296.86	337.28	332.55	-40.42	4.73

Note: Load Summary on April 06, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	262.96	262.96	279.08
2	Eastern Grid	55.35	55.35	63.98
	National	318.31	318.31	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 7, 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	33.78	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	121.37	+	
		Unit- V	79.23	400kV Malbase - Siliguri	11.61	+	
		Unit- VI	80.32				
		Total	159.55	Error At Station/Auxiliary Consumption/Losses	4.40		
2	CHP	Unit- I	33.30	220kV CHP - Birpara Fdr- I	-4.00	-	Unit-II & IV under annual maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-4.32	-	
		Unit- III	43.38	220kV CHP - Malbase Fdr- III	36.00	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	26.68	+	
				220kV Malbase - Birpara Fdr.	-34.71	-	
				66kV CHP - Chumdo Fdr.	12.73	+	
				66kV CHP - Gedu Fdr.	7.98	+	
				3x3MVA, 66/11kV TFR	0.58	+	
		Total	76.68	Error At Station/Auxiliary Consumption/Losses	1.03		
3	BHP (U/S)	Unit- I	4.08	220kV BHP - Semtokha Fdr.	1.25	+	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.02	+	
		Total	4.08	220kV BHP - Tsirang Fdr.	4.21	+	
	BHP (L/S)	Unit- I	9.02	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	9.02	Error At Station/Auxiliary Consumption/Losses	-0.78		
4	DHPC	Unit-I	14.99	220kV DHPC - Tsirang Fdr.	14.78	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.30	+	
		Total	14.99	Error At Station/Auxiliary Consumption/Losses	-0.09		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	28.34	+	Unit-I standby Unit-III under maintenance
		Unit-II	16.33	132kV KHP - Kilikhar Fdr- II	3.35	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.35	+	
		Unit- IV	15.92	132kV Gelephu - Salakati Fdr.	-12.38	-	
				132kV Motanga - Rangia Fdr.	12.55	+	
				220kV Tsirang - Jigmeling	16.00	+	
		Total	32.25	Error At Station/Auxiliary Consumption/Losses	0.21		

Note: Load summary on April 07, 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	264.32	245.96	241.40	2.36	4.56
2	Eastern Grid	32.25	48.08	47.87	0.17	0.21
	Total	296.57	294.04	289.27	2.53	4.77

Note: Load Summary on April 07, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	225.98	243.12	279.08
2	Eastern Grid	36.45	59.03	63.98
	National	262.43	302.15	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.
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