

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 28, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	168.95	400kV THP - Siliguri Fdr- I	0.00	+	Feeder I under Breakdown Unit - II Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	268.24	+	
		Unit- III	168.93	400kV THP - Siliguri Fdr- IV	256.63	+	
		Unit- IV	168.98	400kV THP - Malbase Fdr- III	317.55	+	
		Unit- V	168.24	400kV Malbase - Siliguri	239.68	+	
		Unit- VI	169.14				
		Total	844.24	Error At Station/Auxiliary Consumption/Losses	1.82		
2	CHP	Unit- I	92.07	220kV CHP - Birpara Fdr- I	97.56	+	
		Unit- II	91.35	220kV CHP - Birpara Fdr- II	97.36	+	
		Unit- III	91.53	220kV CHP - Malbase Fdr- III	144.61	+	
		Unit- IV	91.72	220kV CHP - Semtokha Fdr- IV	5.24	+	
				220kV Malbase - Birpara Fdr.	49.00	+	
				66kV CHP - Chumdo Fdr.	10.89	+	
				66kV CHP - Gedu Fdr.	8.21	+	
				3x3MVA, 66/11kV TFR	1.11	+	
		Total	366.67	Error At Station/Auxiliary Consumption/Losses	1.69		
3	BHP (U/S)	Unit- I	11.88	220kV BHP - Semtokha Fdr.	12.03	+	
		Unit- II	11.88	66kV BHP - Lobeysa Fdr.	15.59	+	
		Total	23.76	220kV BHP - Tsirang Fdr.	33.22	+	
	BHP (L/S)	Unit- I	18.93	5MVA, 66/11kV TFR	0.64	+	
		Unit- II	19.24	30MVA ICT, 220/66kV			
		Total	38.17	Error At Station/Auxiliary Consumption/Losses	0.45		
4	DHPC	Unit-I	32.05	220kV DHPC - Tsirang Fdr.	31.77	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	32.05	Error At Station/Auxiliary Consumption/Losses	0.28		
5	KHP	Unit- I	16.46	132kV KHP - Nangkhor Fdr- I	56.81	+	
		Unit-II	16.55	132kV KHP - Kilikhar Fdr- II	8.12	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.47	132kV Gelephu - Salakati Fdr.	22.81	+	
				132kV Motanga - Rangia Fdr.	51.91	+	
				220kV Tsirang - Jigmeling	62.74	+	
		Total	66.07	Error At Station/Auxiliary Consumption/Losses	0.74		

Note: Load summary on June 28, 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	1,304.89	233.68	229.44	1,008.47	4.24
2	Eastern Grid	66.07	54.09	53.35	74.72	0.74
	Total	1,370.96	287.77	282.79	1,083.19	4.98

Note: Load Summary on June 28, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	206.98	225.69	272.24
2	Eastern Grid	45.16	47.63	60.94
	National	252.14	273.32	322.46

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: June 29, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.35	400kV THP - Siliguri Fdr- I	0.00	+	Feeder I under Breakdown Unit - II Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	237.63	+	
		Unit- III	139.54	400kV THP - Siliguri Fdr- IV	226.51	+	
		Unit- IV	138.96	400kV THP - Malbase Fdr- III	254.98	+	
		Unit- V	138.76	400kV Malbase - Siliguri	215.72	+	
		Unit- VI	169.18				
		Total	723.79	Error At Station/Auxiliary Consumption/Losses	4.67		
2	CHP	Unit- I	92.33	220kV CHP - Birpara Fdr- I	97.95	+	
		Unit- II	91.51	220kV CHP - Birpara Fdr- II	97.59	+	
		Unit- III	91.60	220kV CHP - Malbase Fdr- III	170.04	+	
		Unit- IV	91.68	220kV CHP - Semtokha Fdr- IV	-19.87	+	
				220kV Malbase - Birpara Fdr.	29.29	+	
				66kV CHP - Chumdo Fdr.	8.23	+	
				66kV CHP - Gedu Fdr.	11.30	+	
				3x3MVA, 66/11kV TFR	0.74	+	
		Total	367.12	Error At Station/Auxiliary Consumption/Losses	1.14		
3	BHP (U/S)	Unit- I	8.82	220kV BHP - Semtokha Fdr.	33.26	+	
		Unit- II	8.82	66kV BHP - Lobeysa Fdr.	12.43	+	
		Total	17.64	220kV BHP - Tsirang Fdr.	3.03	+	
	BHP (L/S)	Unit- I	15.21	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	15.94	30MVA ICT, 220/66kV			
		Total	31.15	Error At Station/Auxiliary Consumption/Losses	-0.30		
4	DHPC	Unit-I	50.08	220kV DHPC - Tsirang Fdr.	49.77	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	50.08	Error At Station/Auxiliary Consumption/Losses	0.31		
5	KHP	Unit- I	16.25	132kV KHP - Nangkhor Fdr- I	60.58	+	
		Unit-II	16.35	132kV KHP - Kilikhar Fdr- II	3.85	+	
		Unit- III	16.41	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.19	132kV Gelephu - Salakati Fdr.	29.57	+	
				132kV Motanga - Rangia Fdr.	47.53	+	
				220kV Tsirang - Jigmeling	50.47	+	
		Total	65.20	Error At Station/Auxiliary Consumption/Losses	0.37		

Note: Load summary on June 29, 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	1,189.78	234.62	228.80	904.69	5.82
2	Eastern Grid	65.20	38.57	38.20	77.10	0.37
	Total	1,254.98	273.19	267.00	981.79	6.19

Note: Load Summary on June 29, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.55	225.69	226.34
2	Eastern Grid	35.11	44.73	60.94
	National	246.66	270.42	322.46

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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