

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: June 17, 2019
Hours: 19:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	136.86	400kV THP - Siliguri Fdr- I	292.49	+	400kV THP-SIL Fdr IV Standby
		Unit- II	168.74	400kV THP - Siliguri Fdr- II	288.88	+	
		Unit- III	165.60	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	169.59	400kV THP - Malbase Fdr- III	355.12	+	
		Unit- V	169.46	400kV Malbase - Siliguri	256.11	+	
		Unit- VI	137.88				
		Total	948.13	Error At Station/Auxiliary Consumption/Losses	11.64		
2	CHP	Unit- I	90.56	220kV CHP - Birpara Fdr- I	88.93	+	
		Unit- II	90.62	220kV CHP - Birpara Fdr- II	88.86	+	
		Unit- III	90.35	220kV CHP - Malbase Fdr- III	139.20	+	
		Unit- IV	91.33	220kV CHP - Semtokha Fdr- IV	29.72	+	
				220kV Malbase - Birpara Fdr.	38.50	+	
				66kV CHP - Chumdo Fdr.	5.10	+	
				66kV CHP - Gedu Fdr.	8.26	+	
				3x3MVA, 66/11kV TFR	1.19	+	
		Total	362.86	Error At Station/Auxiliary Consumption/Losses	1.60		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-1.97	+	Upper stage unit I standby
		Unit- II	13.15	66kV BHP - Lobeysa Fdr.	11.05	+	
		Total	13.15	220kV BHP - Tsirang Fdr.	28.14	+	
	BHP (L/S)	Unit- I	12.08	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	13.01	30MVA ICT, 220/66kV			
		Total	25.09	Error At Station/Auxiliary Consumption/Losses	0.39		
4	DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	30.04	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	30.29	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	16.33	132kV KHP - Nangkhor Fdr- I	58.23	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.51	132kV KHP - Kilikhar Fdr- II	6.79	+	
		Unit- III	16.51	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.47	132kV Gelephu - Salakati Fdr.	15.30	+	
				132kV Motanga - Rangia Fdr.	70.06	+	
				220kV Tsirang - Jigmeling	57.20	+	
		Total	65.82	Error At Station/Auxiliary Consumption/Losses	0.30		

Note: Load summary on June 17, 2019 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	1,379.52	268.55	254.67	1,053.77	13.88
2	Eastern Grid	65.82	37.66	37.36	85.36	0.30
	Total	1,445.34	306.21	292.03	1,139.13	14.18

Note: Load Summary on June 17, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	226.96	241.02	261.96
2	Eastern Grid	55.61	55.98	61.02
	National	282.57	297.00	322.98

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)
27-Dec-18	18:18hrs	399.35MW

Date: June 18, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.08	400kV THP - Siliguri Fdr- I	211.18	+	400kV THP_SIL Fdr.IV Standby
		Unit- II	99.81	400kV THP - Siliguri Fdr- II	207.00	+	
		Unit- III	141.14	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	100.67	400kV THP - Malbase Fdr- III	248.32	+	
		Unit- V	99.95	400kV Malbase - Siliguri	187.13	+	
		Unit- VI	100.00				
		Total	679.65	Error At Station/Auxiliary Consumption/Losses	13.15		
2	CHP	Unit- I	79.90	220kV CHP - Birpara Fdr- I	79.05	+	
		Unit- II	79.63	220kV CHP - Birpara Fdr- II	79.04	+	
		Unit- III	80.29	220kV CHP - Malbase Fdr- III	134.77	+	
		Unit- IV	80.56	220kV CHP - Semtokha Fdr- IV	14.61	+	
				220kV Malbase - Birpara Fdr.	25.41	-	
				66kV CHP - Chumdo Fdr.	3.13	+	
				66kV CHP - Gedu Fdr.	7.89	+	
				3x3MVA, 66/11kV TFR	0.87	+	
		Total	320.38	Error At Station/Auxiliary Consumption/Losses	1.02		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	9.70	+	Upper stage unit I Standby
		Unit- II	8.35	66kV BHP - Lobeysa Fdr.	9.52	+	
		Total	8.35	220kV BHP - Tsirang Fdr.	4.48	+	
	BHP (L/S)	Unit- I	7.95	5MVA, 66/11kV TFR	0.55	+	
		Unit- II	8.31	30MVA ICT, 220/66kV			
Total	16.26	Error At Station/Auxiliary Consumption/Losses	0.36				
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	32.07	+	Unit-I standby.
		Unit-II	32.28	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	32.28	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	16.54	132kV KHP - Nangkhor Fdr- I	61.32	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.47	132kV KHP - Kilikhar Fdr- II	3.82	+	
		Unit- III	16.54	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.38	132kV Gelephu - Salakati Fdr.	11.36	+	
				132kV Motanga - Rangia Fdr.	40.97	+	
				220kV Tsirang - Jigmeling	35.02	+	
		Total	65.93	Error At Station/Auxiliary Consumption/Losses	0.49		

Note: Load summary on June 18, 2019 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	1,056.92	233.09	218.35	788.81	14.74
2	Eastern Grid	65.93	48.62	48.13	52.33	0.49
	Total	1,122.85	281.71	266.48	841.14	15.23

Note: Load Summary on June 18, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	210.25	227.94	261.96
2	Eastern Grid	43.12	60.33	61.02
	National	253.37	288.27	322.98

NOTES:

- 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:
 - 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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