

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	150.28	400kV THP - Siliguri Fdr- I	224.97	+	Unit-II standby. 400kV THP- SIL Fdr IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	225.35	+	
		Unit- III	151.17	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	150.13	400kV THP - Malbase Fdr- III	296.37	+	
		Unit- V	149.53	400kV Malbase - Siliguri	189.42	+	
		Unit- VI	149.77				
		Total	750.88	Error At Station/Auxiliary Consumption/Losses	4.19		
2	CHP	Unit- I	70.50	220kV CHP - Birpara Fdr- I	64.34	+	
		Unit- II	67.64	220kV CHP - Birpara Fdr- II	64.45	+	
		Unit- III	68.37	220kV CHP - Malbase Fdr- III	109.17	+	
		Unit- IV	75.41	220kV CHP - Semtokha Fdr- IV	29.24	+	
				220kV Malbase - Birpara Fdr.	21.43	+	
				66kV CHP - Chumdo Fdr.	5.68	+	
				66kV CHP - Gedu Fdr.	6.44	+	
				3x3MVA, 66/11kV TFR	1.15	+	
		Total	281.92	Error At Station/Auxiliary Consumption/Losses	1.45		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	1.16	+	Upper stage unit I standby
		Unit- II	8.50	66kV BHP - Lobeysa Fdr.	10.85	+	
		Total	8.50	220kV BHP - Tsirang Fdr.	13.31	+	
	BHP (L/S)	Unit- I	8.72	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	9.09	30MVA ICT, 220/66kV			
		Total	17.81	Error At Station/Auxiliary Consumption/Losses	0.36		
4	DHPC	Unit-I	36.34	220kV DHPC - Tsirang Fdr.	36.09	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	36.34	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	57.27	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.62	132kV KHP - Kilikhar Fdr- II	7.77	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.38	132kV Gelephu - Salakati Fdr.	12.08	+	
				132kV Motanga - Rangia Fdr.	44.43	+	
				220kV Tsirang - Jigmeling	46.63	+	
		Total	65.74	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	1,095.45	258.86	252.61	789.96	6.25
2	Eastern Grid	65.74	55.86	55.56	56.51	0.30
Total		1,161.19	314.72	308.17	846.47	6.55

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	237.48	243.94	261.96
2	Eastern Grid	38.94	46.61	61.02
	National	276.42	290.55	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	68.40	400kV THP - Siliguri Fdr- I	103.28	+	Unit-II standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	100.69	+	
		Unit- III	70.57	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.71	400kV THP - Malbase Fdr- III	146.09	+	
		Unit- V	70.33	400kV Malbase - Siliguri	85.81	+	
		Unit- VI	78.81				
		Total	358.82	Error At Station/Auxiliary Consumption/Losses	8.76		
2	CHP	Unit- I	65.45	220kV CHP - Birpara Fdr- I	40.65	+	
		Unit- II	71.39	220kV CHP - Birpara Fdr- II	40.51	+	
		Unit- III	65.75	220kV CHP - Malbase Fdr- III	108.67	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	1.85	+	
				220kV Malbase - Birpara Fdr.	-16.60	-	
				66kV CHP - Chumdo Fdr.	3.30	+	
				66kV CHP - Gedu Fdr.	6.42	+	
				3x3MVA, 66/11kV TFR	0.89	+	
		Total	202.59	Error At Station/Auxiliary Consumption/Losses	0.30		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	16.82	+	Upper stage unit I Standby
		Unit- II	10.22	66kV BHP - Lobeysa Fdr.	10.91	+	
		Total	10.22	220kV BHP - Tsirang Fdr.	7.51	+	
	BHP (L/S)	Unit- I	8.78	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	10.07	30MVA ICT, 220/66kV			
		Total	18.85	Error At Station/Auxiliary Consumption/Losses	-6.59		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	33.13	+	Unit-I standby.
		Unit-II	33.36	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	33.36	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	16.39	132kV KHP - Nangkhor Fdr- I	60.38	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.48	132kV KHP - Kilikhar Fdr- II	4.65	+	
		Unit- III	16.32	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	16.42	132kV Gelephu - Salakati Fdr.	9.79	+	
				132kV Motanga - Rangia Fdr.	40.17	+	
				220kV Tsirang - Jigmeling	29.49	+	
		Total	65.61	Error At Station/Auxiliary Consumption/Losses	0.38		

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	623.84	240.01	237.31	354.34	2.70
2	Eastern Grid	65.61	45.14	44.76	49.96	0.38
	Total	689.45	285.15	282.07	404.30	3.08

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	201.74	241.01	261.96
2	Eastern Grid	43.95	55.98	61.02
	National	245.69	296.99	322.98

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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