

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 8, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	168.43	400kV THP - Siliguri Fdr- I	137.57	+	400kV THP - Siliguri Fdr III Standby, Unit-III,IV & V standby
		Unit- II	170.46	400kV THP - Siliguri Fdr- II	138.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	223.38	+	
		Unit- V	0.00	400kV Malbase - Siliguri	111.26	+	
		Unit- VI	169.94				
		Total	508.83	Error At Station/Auxiliary Consumption/Losses	9.88		
2	CHP	Unit- I	83.36	220kV CHP - Birpara Fdr- I	50.79	+	Unit-III Standby
		Unit- II	82.52	220kV CHP - Birpara Fdr- II	50.96	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	87.76	+	
		Unit- IV	82.77	220kV CHP - Semtokha Fdr- IV	42.76	+	
				220kV Malbase - Birpara Fdr.	18.26	+	
				66kV CHP - Chumdo Fdr.	7.25	+	
				66kV CHP - Gedu Fdr.	7.10	+	
				3x3MVA, 66/11kV TFR	1.09	+	
		Total	248.65	Error At Station/Auxiliary Consumption/Losses	0.94		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-5.68	+	Upper stage unit I & Lower stage unit-II standby
		Unit- II	6.20	66kV BHP - Lobeysa Fdr.	9.00	+	
		Total	6.20	220kV BHP - Tsirang Fdr.	19.48	+	
	BHP (L/S)	Unit- I	11.80	5MVA, 66/11kV TFR	0.91	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	11.80	Error At Station/Auxiliary Consumption/Losses	-5.71		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	24.53	+	Unit-I Standby
		Unit-II	24.88	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	24.88	Error At Station/Auxiliary Consumption/Losses	0.35		
5	KHP	Unit- I	16.42	132kV KHP - Nangkhor Fdr- I	56.73	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.55	132kV KHP - Kilikhar Fdr- II	8.79	+	
		Unit- III	16.64	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.32	132kV Gelephu - Salakati Fdr.	6.65	+	
				132kV Motanga - Rangia Fdr.	42.59	+	
				220kV Tsirang - Jigmeling	41.39	+	
		Total	65.93	Error At Station/Auxiliary Consumption/Losses	0.01		

Note: Load summary on June 08, 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	800.36	252.13	246.67	506.84	5.46
2	Eastern Grid	65.93	58.08	58.07	49.24	0.01
	Total	866.29	310.21	304.74	556.08	5.47

Note: Load Summary on June 08, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.65	247.93	261.96
2	Eastern Grid	58.17	60.98	61.02
	National	295.82	308.91	322.98

NOTE BHP loads are collected from site

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 9, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	109.08	400kV THP - Siliguri Fdr- I	117.00	+	400kV THP_Siliguri Fdr- IV Standby. Unit-IV,V & III standby
		Unit- II	169.19	400kV THP - Siliguri Fdr- II	116.73	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	179.06	+	
		Unit- V	0.00	400kV Malbase - Siliguri	95.36	+	
		Unit- VI	140.83				
		Total	419.10	Error At Station/Auxiliary Consumption/Losses		6.31	
2	CHP	Unit- I	70.31	220kV CHP - Birpara Fdr- I	39.89	+	Unit-III Standby
		Unit- II	67.86	220kV CHP - Birpara Fdr- II	39.88	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	87.53	+	
		Unit- IV	69.11	220kV CHP - Semtokha Fdr- IV	27.99	+	
				220kV Malbase - Birpara Fdr.	0.00		
				66kV CHP - Chumdo Fdr.	5.45	+	
				66kV CHP - Gedu Fdr.	5.75	+	
				3x3MVA, 66/11kV TFR	0.70	+	
		Total	207.28	Error At Station/Auxiliary Consumption/Losses		0.09	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-1.18	-	Upper stage unit I & Lower stage unit-II standby
		Unit- II	6.07	66kV BHP - Lobeysa Fdr.	9.02	+	
		Total	6.07	220kV BHP - Tsirang Fdr.		9.31	
	BHP (L/S)	Unit- I	12.81	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.81	Error At Station/Auxiliary Consumption/Losses		0.81	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.80	+	Unit-I standby.
		Unit-II	20.08	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	20.08	Error At Station/Auxiliary Consumption/Losses		0.28	
5	KHP	Unit- I	16.35	132kV KHP - Nangkhor Fdr- I	60.83	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.54	132kV KHP - Kilikhar Fdr- II	4.13	+	
		Unit- III	16.37	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.44	132kV Gelephu - Salakati Fdr.	10.88	+	
				132kV Motanga - Rangia Fdr.	35.08	+	
				220kV Tsirang - Jigmeling	27.68	+	
		Total	65.70	Error At Station/Auxiliary Consumption/Losses		0.34	

Note: Load summary on June 09, 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	665.34	228.80	221.31	408.86	7.49
2	Eastern Grid	65.70	47.42	47.08	45.96	0.34
	Total	731.04	276.22	268.39	454.82	7.83

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	218.14	246.97	261.96
2	Eastern Grid	41.03	50.56	61.02
	National	259.17	297.53	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:
 - u
 - 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.