

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 7, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	97.25	400kV THP - Siliguri Fdr- I	89.69	+	Unit IV AMP
		Unit- II	96.10	400kV THP - Siliguri Fdr- II	89.50	+	
		Unit- III	80.49	400kV THP - Siliguri Fdr- IV	86.24	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	181.37	+	
		Unit- V	79.57	400kV Malbase - Siliguri	65.86	+	
		Unit- VI	99.72				
		Total	453.13	Error At Station/Auxiliary Consumption/Losses	6.33		
2	CHP	Unit- I	88.00	220kV CHP - Birpara Fdr- I	47.53	+	Unit III Standby
		Unit- II	87.25	220kV CHP - Birpara Fdr- II	47.34	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	93.13	+	
		Unit- IV	83.27	220kV CHP - Semtokha Fdr- IV	51.84	+	
				220kV Malbase - Birpara Fdr.	5.71	+	
				66kV CHP - Chumdo Fdr.	9.00	+	
				66kV CHP - Gedu Fdr.	6.75	+	
				3x3MVA, 66/11kV TFR	1.37	+	
		Total	258.52	Error At Station/Auxiliary Consumption/Losses	1.56		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-14.11	-	Upper stage unit I standby
		Unit- II	6.42	66kV BHP - Lobeysa Fdr.	11.45	+	
		Total	6.42	220kV BHP - Tsirang Fdr.	20.95	+	
	BHP (L/S)	Unit- I	7.00	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	6.58	30MVA ICT, 220/66kV			
		Total	13.58	Error At Station/Auxiliary Consumption/Losses	1.04		
4	DHPC	Unit-I	22.79	220kV DHPC - Tsirang Fdr.	22.58	+	Unit II stnadby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	22.79	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	14.37	132kV KHP - Nangkhor Fdr- I	47.57	+	
		Unit-II	14.50	132kV KHP - Kilikhar Fdr- II	8.80	+	
		Unit- III	14.20	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	13.90	132kV Gelephu - Salakati Fdr.	0.68	+	
				132kV Motanga - Rangia Fdr.	28.31	+	
				220kV Tsirang - Jigmeling	41.71	+	
		Total	56.97	Error At Station/Auxiliary Consumption/Losses	0.30		

Note: Load summary on May 07, 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	754.44	280.86	271.72	431.87	9.14
2	Eastern Grid	56.97	69.69	69.39	28.99	0.30
	Total	811.41	350.55	341.11	460.86	9.44

Note: Load Summary on May 07, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid			270.60
2	Eastern Grid	59.49	59.49	62.83
	National	59.49	59.49	333.43

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

Date: May 8, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.75	400kV THP - Siliguri Fdr- I	124.07	+	Unit IV AMP Unit V Standby
		Unit- II	137.52	400kV THP - Siliguri Fdr- II	122.29	+	
		Unit- III	141.97	400kV THP - Siliguri Fdr- IV	118.83	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	184.46	+	
		Unit- V	0.00	400kV Malbase - Siliguri	103.07	+	
		Unit- VI	139.35				
		Total	557.59	Error At Station/Auxiliary Consumption/Losses	7.94		
2	CHP	Unit- I	90.01	220kV CHP - Birpara Fdr- I	56.40	+	Unit III Standby
		Unit- II	91.15	220kV CHP - Birpara Fdr- II	56.30	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	121.82	+	
		Unit- IV	90.89	220kV CHP - Semtokha Fdr- IV	23.38	+	
				220kV Malbase - Birpara Fdr.	-1.14	-	
				66kV CHP - Chumdo Fdr.	4.88	+	
				66kV CHP - Gedu Fdr.	7.52	+	
				3x3MVA, 66/11kV TFR	0.71	+	
		Total	272.05	Error At Station/Auxiliary Consumption/Losses	1.04		
3	BHP (U/S)	Unit- I	6.51	220kV BHP - Semtokha Fdr.	14.20	+	Upper stage unit II and lower stage unit I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.12	+	
		Total	6.51	220kV BHP - Tsirang Fdr.	-3.39	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	6.52	30MVA ICT, 220/66kV			
		Total	6.52	Error At Station/Auxiliary Consumption/Losses	-7.33		
4	DHPC	Unit-I	21.25	220kV DHPC - Tsirang Fdr.	21.05	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	21.25	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	14.12	132kV KHP - Nangkhor Fdr- I	51.90	+	
		Unit-II	14.04	132kV KHP - Kilikhar Fdr- II	3.93	+	
		Unit- III	14.31	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	14.00	132kV Gelephu - Salakati Fdr.	8.15	+	
				132kV Motanga - Rangia Fdr.	25.34	+	
				220kV Tsirang - Jigmeling	26.26	+	
		Total	56.47	Error At Station/Auxiliary Consumption/Losses	0.24		

Note: Load summary on May 08, 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	863.92	257.84	255.99	579.82	1.85
2	Eastern Grid	56.47	49.24	49.00	33.49	0.24
	Total	920.39	307.08	304.99	613.31	2.09

Note: Load Summary on May 08, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	202.43	236.00	270.60
2	Eastern Grid	50.01	59.49	62.83
	National	252.44	295.49	333.43

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.