

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 14, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.70	400kV THP - Siliguri Fdr- I	0.00	+	Unit-IV AMP Unit-VI Standby 400kV THP_SIL fdr I & II under breakdown
		Unit- II	79.92	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	100.73	400kV THP - Siliguri Fdr- IV	136.81	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	237.70	+	
		Unit- V	100.46	400kV Malbase - Siliguri	114.29	+	
		Unit- VI	0.00				
		Total	380.81	Error At Station/Auxiliary Consumption/Losses	6.30		
2	CHP	Unit- I	66.15	220kV CHP - Birpara Fdr- I	36.13	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	36.15	+	
		Unit- III	72.78	220kV CHP - Malbase Fdr- III	75.11	+	
		Unit- IV	74.98	220kV CHP - Semtokha Fdr- IV	42.56	+	
				220kV Malbase - Birpara Fdr.	1.78	+	
				66kV CHP - Chumdo Fdr.	16.29	+	
				66kV CHP - Gedu Fdr.	4.67	+	
				3x3MVA, 66/11kV TFR	1.28	+	
		Total	213.91	Error At Station/Auxiliary Consumption/Losses	1.72		
3	BHP (U/S)	Unit- I	5.69	220kV BHP - Semtokha Fdr.	-11.41	-	Upper stage unit II & lower stage unit-I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.79	+	
		Total	5.69	220kV BHP - Tsirang Fdr.	20.46	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	13.68	30MVA ICT, 220/66kV			
		Total	13.68	Error At Station/Auxiliary Consumption/Losses	-0.09		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.11	+	Unit-I Standby
		Unit-II	17.34	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.34	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	11.22	132kV KHP - Nangkhor Fdr- I	39.91	+	
		Unit-II	11.18	132kV KHP - Kilikhar Fdr- II	8.12	+	
		Unit- III	15.13	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	11.17	132kV Gelephu - Salakati Fdr.	-6.51	-	
				132kV Motanga - Rangia Fdr.	17.80	+	
				220kV Tsirang - Jigmeling	32.54	+	
		Total	48.70	Error At Station/Auxiliary Consumption/Losses	0.07		

Note: Load summary on May 14, 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	631.43	273.73	265.57	325.16	8.16
2	Eastern Grid	48.70	69.95	69.88	11.29	0.07
	Total	680.13	343.68	335.45	336.45	8.23

Note: Load Summary on May 14, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.42	259.85	270.60
2	Eastern Grid	55.58	55.58	62.83
	National	307.00	315.43	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 15, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.83	400kV THP - Siliguri Fdr- I	0.00	+	Unit-IV AMP Unit-VI Standby Unit III,400kV THP_SIL I & II under breakdown.
		Unit- II	78.12	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	93.46	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	160.77	+	
		Unit- V	80.61	400kV Malbase - Siliguri	79.38	+	
		Unit- VI	0.00				
		Total	258.56	Error At Station/Auxiliary Consumption/Losses	4.33		
2	CHP	Unit- I	57.77	220kV CHP - Birpara Fdr- I	32.00	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	31.85	+	
		Unit- III	48.89	220kV CHP - Malbase Fdr- III	79.29	+	
		Unit- IV	60.15	220kV CHP - Semtokha Fdr- IV	5.24	+	
				220kV Malbase - Birpara Fdr.	-8.07	-	
				66kV CHP - Chumdo Fdr.	10.87	+	
				66kV CHP - Gedu Fdr.	5.21	+	
				3x3MVA, 66/11kV TFR	0.70	+	
		Total	166.81	Error At Station/Auxiliary Consumption/Losses	1.65		
3	BHP (U/S)	Unit- I	5.33	220kV BHP - Semtokha Fdr.	16.31	+	Upper stage unit II & lower stage unit-I Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.37	+	
		Total	5.33	220kV BHP - Tsirang Fdr.	-8.25	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	11.00	30MVA ICT, 220/66kV			
		Total	11.00	Error At Station/Auxiliary Consumption/Losses	-0.47		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.90	+	Unit-I standby.
		Unit-II	17.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.00	Error At Station/Auxiliary Consumption/Losses	0.10		
5	KHP	Unit- I	15.52	132kV KHP - Nangkhor Fdr- I	57.21	+	
		Unit-II	15.53	132kV KHP - Kilikhar Fdr- II	4.14	+	
		Unit- III	15.98	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	15.29	132kV Gelephu - Salakati Fdr.	2.76	+	
				132kV Motanga - Rangia Fdr.	27.16	+	
				220kV Tsirang - Jigmeling	7.41	+	
		Total	62.32	Error At Station/Auxiliary Consumption/Losses	0.47		

Note: Load summary on May 15, 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	458.70	222.67	217.06	228.62	5.61
2	Eastern Grid	62.32	39.81	39.34	29.92	0.47
	Total	521.02	262.48	256.40	258.54	6.08

Note: Load Summary on May 15, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.49	259.85	270.60
2	Eastern Grid	45.68	59.54	62.83
	National	285.17	319.39	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.
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