

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 12, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	184.00	400kV THP - Siliguri Fdr- I	0.00	+	Unit-IV AMP Unit-III & VI Standby 400kV THP_SIL fdr I ,II and 400kV THP_MAL under breakdown
		Unit- II	184.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	545.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	184.00	400kV Malbase - Siliguri	-63.00	-	
		Unit- VI	0.00				
		Total	552.00	Error At Station/Auxiliary Consumption/Losses	7.00		
2	CHP	Unit- I	86.00	220kV CHP - Birpara Fdr- I	42.80	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	42.50	+	
		Unit- III	82.00	220kV CHP - Malbase Fdr- III	100.50	+	
		Unit- IV	89.00	220kV CHP - Semtokha Fdr- IV	50.70	+	
				220kV Malbase - Birpara Fdr.	-27.00	-	
				66kV CHP - Chumdo Fdr.	16.30	+	
				66kV CHP - Gedu Fdr.	2.00	+	
		Total	257.00	Error At Station/Auxiliary Consumption/Losses	0.89		
3	BHP (U/S)	Unit- I	5.30	220kV BHP - Semtokha Fdr.	-14.80	-	Upper stage unit II & lower stage unit-I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.95	+	
		Total	5.30	220kV BHP - Tsirang Fdr.	23.46	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	10.87	30MVA ICT, 220/66kV			
		Total	10.87	Error At Station/Auxiliary Consumption/Losses	-2.36		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.15	+	Unit-I Standby
		Unit-II	17.36	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.36	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	13.36	132kV KHP - Nangkhor Fdr- I	44.51	+	
		Unit-II	13.40	132kV KHP - Kilikhar Fdr- II	6.29	+	
		Unit- III	15.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	13.20	132kV Gelephu - Salakati Fdr.	-1.20	-	
				132kV Motanga - Rangia Fdr.	30.30	+	
				220kV Tsirang - Jigmeling	37.01	+	
		Total	54.96	Error At Station/Auxiliary Consumption/Losses	3.56		

Note: Load summary on May 12, 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	842.53	265.22	259.48	540.30	5.74
2	Eastern Grid	54.96	62.87	59.31	29.10	3.56
	Total	897.49	328.09	318.79	569.40	9.30

Note: Load Summary on May 12, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	234.97	256.84	270.60
2	Eastern Grid	59.76	59.76	62.83
	National	294.73	316.60	333.43

NOTES: Data fetched from site since link was down.

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 13, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	120.00	400kV THP - Siliguri Fdr- I	0.00	+	Unit-IV AMP Unit-III & VI Standby 400kV THP_SIL I & II under breakdown.
		Unit- II	110.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	140.00	400kV THP - Siliguri Fdr- IV	219.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	280.00	+	
		Unit- V	140.00	400kV Malbase - Siliguri	201.00	+	
		Unit- VI	0.00				
		Total	510.00	Error At Station/Auxiliary Consumption/Losses		11.00	
2	CHP	Unit- I	79.76	220kV CHP - Birpara Fdr- I	55.30	+	Unit-III Standby
		Unit- II	75.60	220kV CHP - Birpara Fdr- II	55.30	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	101.76	+	
		Unit- IV	82.40	220kV CHP - Semtokha Fdr- IV	10.87	+	
				220kV Malbase - Birpara Fdr.	11.00	+	
				66kV CHP - Chumdo Fdr.	3.81	+	
				66kV CHP - Gedu Fdr.	6.56	+	
				3x3MVA, 66/11kV TFR	0.83	+	
		Total	237.76	Error At Station/Auxiliary Consumption/Losses		3.33	
3	BHP (U/S)	Unit- I	5.65	220kV BHP - Semtokha Fdr.	9.15	+	Upper stage unit II & lower stage unit-I Standby <input type="checkbox"/>
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.01	+	
		Total	5.65	220kV BHP - Tsirang Fdr.		-1.03	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	11.43	30MVA ICT, 220/66kV			
		Total	11.43	Error At Station/Auxiliary Consumption/Losses		0.27	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	23.20	+	Unit-I standby.
		Unit-II	23.40	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	23.40	Error At Station/Auxiliary Consumption/Losses		0.20	
5	KHP	Unit- I	15.11	132kV KHP - Nangkhor Fdr- I	57.10	+	
		Unit-II	15.17	132kV KHP - Kilikhar Fdr- II	3.42	+	
		Unit- III	16.06	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	14.88	132kV Gelephu - Salakati Fdr.	4.82	+	
				132kV Motanga - Rangia Fdr.	29.16	+	
				220kV Tsirang - Jigmeling	20.04	+	
		Total	61.22	Error At Station/Auxiliary Consumption/Losses		0.20	

Note: Load summary on May 13, 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	788.24	226.60	211.80	541.60	14.80
2	Eastern Grid	61.22	47.28	47.08	33.98	0.20
	Total	849.46	273.88	258.88	575.58	15.00

Note: Load Summary on May 13, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	166.37	252.12	270.60
2	Eastern Grid	49.46	61.94	62.83
	National	215.83	314.06	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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