

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 16, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	98.85	400kV THP - Siliguri Fdr- I	0.00		Unit-IV AMP Unit- V & VI Standby 400kV THP_SIL fdr I & II under breakdown
		Unit- II	99.84	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	149.63	400kV THP - Siliguri Fdr- IV	119.93	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	223.55	+	
		Unit- V	0.00	400kV Malbase - Siliguri	96.26	+	
		Unit- VI	0.00				
		Total	348.32	Error At Station/Auxiliary Consumption/Losses	4.84		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	27.13	+	Unit-II Standby Unit-III Under maintenance
		Unit- II	91.56	220kV CHP - Birpara Fdr- II	27.38	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	58.06	+	
		Unit- IV	88.57	220kV CHP - Semtokha Fdr- IV	43.87	+	
				220kV Malbase - Birpara Fdr.	-0.15	-	
				66kV CHP - Chumdo Fdr.	16.84	+	
				66kV CHP - Gedu Fdr.	3.86	+	
		Total	180.13	Error At Station/Auxiliary Consumption/Losses	1.66		
3	BHP (U/S)	Unit- I	4.96	220kV BHP - Semtokha Fdr.	-12.21	-	Upper stage unit II & lower stage unit-I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.94	+	
		Total	4.96	220kV BHP - Tsirang Fdr.	17.38	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.48	+	
		Unit- II	10.51	30MVA ICT, 220/66kV			
		Total	10.51	Error At Station/Auxiliary Consumption/Losses	0.88		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.59	+	Unit-I Standby
		Unit-II	16.81	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	16.81	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	11.20	132kV KHP - Nangkhor Fdr- I	39.07	+	
		Unit-II	11.24	132kV KHP - Kilikhar Fdr- II	8.60	+	
		Unit- III	15.29	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	11.03	132kV Gelephu - Salakati Fdr.	-5.20	-	
				132kV Motanga - Rangia Fdr.	25.00	+	
				220kV Tsirang - Jigmeling	31.37	+	
		Total	48.76	Error At Station/Auxiliary Consumption/Losses	0.59		

Note: Load summary on May 16, 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	560.73	258.81	251.21	270.55	7.60
2	Eastern Grid	48.76	60.33	59.74	19.80	0.59
Total		609.49	319.14	310.95	290.35	8.19

Note: Load Summary on May 16, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.55	255.55	270.60
2	Eastern Grid	54.88	54.88	62.83
National		310.43	310.43	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 17, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.10	400kV THP - Siliguri Fdr- I	0.00		Unit-IV AMP Unit- V & VI Standby 400kV THP_SIL I & II under breakdown.
		Unit- II	99.88	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	130.99	400kV THP - Siliguri Fdr- IV	121.73	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	203.23	+	
		Unit- V	0.00	400kV Malbase - Siliguri	104.02	+	
		Unit- VI	0.00				
		Total	329.97	Error At Station/Auxiliary Consumption/Losses	5.01		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	28.50	+	Unit-I Standby Unit-III under maintenance □
		Unit- II	78.91	220kV CHP - Birpara Fdr- II	28.41	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	71.76	+	
		Unit- IV	81.36	220kV CHP - Semtokha Fdr- IV	14.62	+	
				220kV Malbase - Birpara Fdr.	-8.68	-	
				66kV CHP - Chumdo Fdr.	10.90	+	
				66kV CHP - Gedu Fdr.	4.35	+	
				3x3MVA, 66/11kV TFR	0.72	+	
		Total	160.27	Error At Station/Auxiliary Consumption/Losses	1.01		
3	BHP (U/S)	Unit- I	4.87	220kV BHP - Semtokha Fdr.	7.52	+	Upper stage unit II & lower stage unit-I Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	7.73	+	
		Total	4.87	220kV BHP - Tsirang Fdr.	-0.18	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	10.08	30MVA ICT, 220/66kV			
		Total	10.08	Error At Station/Auxiliary Consumption/Losses	-0.50		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.59	+	Unit-I standby.
		Unit-II	16.78	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	16.78	Error At Station/Auxiliary Consumption/Losses	0.19		
5	KHP	Unit- I	14.31	132kV KHP - Nangkhor Fdr- I	53.58	+	
		Unit-II	14.24	132kV KHP - Kilikhar Fdr- II	3.54	+	
		Unit- III	15.01	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.22	132kV Gelephu - Salakati Fdr.	-1.44	-	
				132kV Motanga - Rangia Fdr.	26.44	+	
				220kV Tsirang - Jigmeling	13.81	+	
		Total	57.78	Error At Station/Auxiliary Consumption/Losses	0.36		

Note: Load summary on May 17, 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	521.97	234.18	228.47	273.98	5.71
2	Eastern Grid	57.78	46.59	46.23	25.00	0.36
	Total	579.75	280.77	274.70	298.98	6.07

Note: Load Summary on May 17, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	245.90	252.20	270.60
2	Eastern Grid	43.11	58.76	62.83
	National	289.01	310.96	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:
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