

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	118.87	400kV THP - Siliguri Fdr- I	0.00		Unit-IV AMP Unit- V & VI Standby 400kV THP_SIL fdr I & II under breakdown
		Unit- II	140.94	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	80.37	400kV THP - Siliguri Fdr- IV	128.55	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	205.14	+	
		Unit- V	0.00	400kV Malbase - Siliguri	110.32	+	
		Unit- VI	0.00				
		Total	340.18	Error At Station/Auxiliary Consumption/Losses	6.49		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	38.18	+	Unit-I Standby
		Unit- II	76.58	220kV CHP - Birpara Fdr- II	38.15	+	
		Unit- III	68.93	220kV CHP - Malbase Fdr- III	84.81	+	
		Unit- IV	75.54	220kV CHP - Semtokha Fdr- IV	38.15	+	
				220kV Malbase - Birpara Fdr.	-3.58	+	
				66kV CHP - Chumdo Fdr.	16.58	+	
				66kV CHP - Gedu Fdr.	2.91	+	
				3x3MVA, 66/11kV TFR	1.35	+	
		Total	221.05	Error At Station/Auxiliary Consumption/Losses	0.92		
3	BHP (U/S)	Unit- I	4.58	220kV BHP - Semtokha Fdr.	-7.12	-	Upper stage unit II & lower stage unit-II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.20	+	
		Total	4.58	220kV BHP - Tsirang Fdr.	10.58	+	
	BHP (L/S)	Unit- I	9.52	5MVA, 66/11kV TFR	0.65	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	9.52	Error At Station/Auxiliary Consumption/Losses	0.79		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.33	+	Unit-I Standby
		Unit-II	16.55	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	16.55	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	16.54	132kV KHP - Nangkhor Fdr- I	56.44	+	
		Unit-II	16.57	132kV KHP - Kilikhar Fdr- II	8.74	+	
		Unit- III	16.57	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.28	132kV Gelephu - Salakati Fdr.	-5.37	-	
				132kV Motanga - Rangia Fdr.	32.57	+	
				220kV Tsirang - Jigmeling	25.58	+	
		Total	65.96	Error At Station/Auxiliary Consumption/Losses	0.38		

Note: Load summary on May 19, 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	591.88	254.68	246.26	311.62	8.42
2	Eastern Grid	65.96	64.34	63.96	27.20	0.38
	Total	657.84	319.02	310.22	338.82	8.80

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	240.32	240.91	270.60
2	Eastern Grid	58.07	58.07	62.83
	National	298.39	298.98	333.43

NOTES:

- 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:
 - 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.
 - The clocks of all the locations are not synchronized
- 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 20, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.47	400kV THP - Siliguri Fdr- I	0.00		Unit-IV AMP, Unit- V & VI Standby. 400kV THP_SIL I & II under breakdown.
		Unit- II	140.08	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	100.93	400kV THP - Siliguri Fdr- IV	130.96	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	204.62	+	
		Unit- V	0.00	400kV Malbase - Siliguri	113.83	+	
		Unit- VI	0.00				
		Total	340.48	Error At Station/Auxiliary Consumption/Losses	4.90		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	26.30	+	Unit-I Standby
		Unit- II	50.81	220kV CHP - Birpara Fdr- II	26.24	+	
		Unit- III	55.49	220kV CHP - Malbase Fdr- III	85.43	+	
		Unit- IV	59.46	220kV CHP - Semtokha Fdr- IV	9.82	+	
				220kV Malbase - Birpara Fdr.	-22.03	+	
				66kV CHP - Chumdo Fdr.	11.45	+	
				66kV CHP - Gedu Fdr.	5.13	+	
				3x3MVA, 66/11kV TFR	0.43	+	
		Total	165.76	Error At Station/Auxiliary Consumption/Losses	0.96		
3	BHP (U/S)	Unit- I	4.63	220kV BHP - Semtokha Fdr.	11.07	+	Upper stage unit II & lower stage unit-II Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	7.63	+	
		Total	4.63	220kV BHP - Tsirang Fdr.	-4.73	-	
	BHP (L/S)	Unit- I	9.72	5MVA, 66/11kV TFR	0.56	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	9.72	Error At Station/Auxiliary Consumption/Losses	-0.18		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.29	+	Unit-I standby.
		Unit-II	16.49	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	16.49	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	61.40	+	
		Unit-II	16.60	132kV KHP - Kilikhar Fdr- II	3.50	+	
		Unit- III	16.40	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.40	132kV Gelephu - Salakati Fdr.	3.20	+	
				132kV Motanga - Rangia Fdr.	26.80	+	
				220kV Tsirang - Jigmeling	12.10	+	
		Total	65.90	Error At Station/Auxiliary Consumption/Losses	0.70		

Note: Load summary on May 20, 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	537.08	249.68	243.80	275.30	5.88
2	Eastern Grid	65.90	48.00	47.30	30.00	0.70
	Total	602.98	297.68	291.10	305.30	6.58

Note: Load Summary on May 20, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	214.73	242.17	270.60
2	Eastern Grid	43.78	56.52	62.83
	National	258.51	298.69	333.43

NOTES:

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 - 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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