

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 8, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00	+	Unit-V & 400kV THP-SIL Fdr I standby. Unit-I, II & III under AM. 400kV THP_SIL Fdr II under AM.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	55.00	+	
		Unit- IV	110.00	400kV THP - Malbase Fdr- III	149.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	32.00	+	
		Unit- VI	100.00				
		Total	210.00	Error At Station/Auxiliary Consumption/Losses	6.00		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit I & III under AM. 220kV CHP-BIR II under breakdown and 220kV CHP-BIR I under AM.
		Unit- II	59.00	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	27.20	+	
		Unit- IV	49.00	220kV CHP - Semtokha Fdr- IV	55.90	+	
				220kV Malbase - Birpara Fdr.	-74.92	-	
				66kV CHP - Chumdo Fdr.	22.30	+	
				66kV CHP - Gedu Fdr.	0.30	+	
		Total	108.00	Error At Station/Auxiliary Consumption/Losses	0.52		
3	BHP (U/S)	Unit- I	6.20	220kV BHP - Semtokha Fdr.	2.40	+	Upper stage & Lower Stage-Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.91	+	
		Total	6.20	220kV BHP - Tsirang Fdr.	0.89		
	BHP (L/S)	Unit- I	12.30	5MVA, 66/11kV TFR	0.86	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.30	Error At Station/Auxiliary Consumption/Losses	-1.56		
4	DHPC	Unit-I	15.38	220kV DHPC - Tsirang Fdr.	15.21	+	Unit-II under Maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.38	Error At Station/Auxiliary Consumption/Losses	0.17		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.15	+	Unit I & III Standby. Unit-IV AM
		Unit-II	16.11	132kV KHP - Kilikhar Fdr- II	5.09	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-15.80	-	
				132kV Motanga - Rangia Fdr.	7.84	+	
				220kV Tsirang - Jigmeling	14.77	+	
		Total	16.11	Error At Station/Auxiliary Consumption/Losses	0.37		

Note: Load summary on February 08, 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	351.88	325.03	319.90	12.08	5.13
2	Eastern Grid	16.11	38.84	38.47	-7.96	0.37
	Total	367.99	363.87	358.37	4.12	5.50

Note: Load Summary on February 08, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	291.66	291.66	313.19
2	Eastern Grid	64.84	64.97	72.02
	National	356.50	356.63	385.21

Notes:- 220kV TSI_BHP . Units and feeders load of 220kV CHP and 400kV THP collected from site.

- 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: February 9, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		Unit-V & 400kV THP-SIL Fdr I standby. Unit-I, II & III under AM. 400kV THP_SIL Fdr II under AM.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	57.15	+	
		Unit- IV	120.71	400kV THP - Malbase Fdr- III	129.95	+	
		Unit- V	0.00	400kV Malbase - Siliguri	42.46	+	
		Unit- VI	70.27				
		Total	190.98	Error At Station/Auxiliary Consumption/Losses	3.88		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I and III under AM.220kV CHP-BIR I under AM & Birpara II under breakdown.
		Unit- II	41.68	220kV CHP - Birpara Fdr- II	0.00	-	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	39.45	+	
		Unit- IV	47.99	220kV CHP - Semtokha Fdr- IV	27.51	+	
				220kV Malbase - Birpara Fdr.	-51.30	-	
				66kV CHP - Chumdo Fdr.	18.26	+	
				66kV CHP - Gedu Fdr.	2.31	+	
		Total	89.67	Error At Station/Auxiliary Consumption/Losses	0.54		
3	BHP (U/S)	Unit- I	5.62	220kV BHP - Semtokha Fdr.	15.65	+	Upper stage & Lower Stage- Unit II under AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	13.50	+	
		Total	5.62	220kV BHP - Tsirang Fdr.	-12.91	-	
	BHP (L/S)	Unit- I	12.00	5MVA, 66/11kV TFR	0.65	+	
		Total	12.00	Error At Station/Auxiliary Consumption/Losses	0.73		
4	DHPC	Unit-I	18.24	220kV DHPC - Tsirang Fdr.	18.05	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR			
		Total	18.24	Error At Station/Auxiliary Consumption/Losses	0.19		
5	KHP	Unit- I	10.09	132kV KHP - Nangkhor Fdr- I	13.56	+	Unit-IV under AM
		Unit-II	10.22	132kV KHP - Kilikhar Fdr- II	6.11	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-25.26	-	
				132kV Motanga - Rangia Fdr.	-1.20	+	
				220kV Tsirang - Jigmeling	3.45	+	
		Total	20.31	Error At Station/Auxiliary Consumption/Losses			

Note: Load summary on February 09, 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	316.51	264.75	259.41	48.31	5.34
2	Eastern Grid	20.31	50.22	49.98	-26.46	0.24
	Total	336.82	314.97	309.39	21.85	5.58

Note: Load Summary on February 09, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	260.75	285.70	313.19
2	Eastern Grid	45.00	66.17	72.02
	National	305.75	351.87	385.21

Notes:- CHP_Mal load collected from site

- 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.
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