

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 1, 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	2.04	+	
		Unit- IV	60.07	400kV THP - Malbase Fdr- III	115.63	+	
		Unit- V	0.00	400kV Malbase - Siliguri	-19.09	+	
		Unit- VI	59.44				
		Total	119.51	Error At Station/Auxiliary Consumption/Losses	1.84		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Total Unit shutdown (Dam Scouring) 220kV CHP-BIR I & II under AM.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	-66.75	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	50.13	+	
				220kV Malbase - Birpara Fdr.	-95.26	-	
				66kV CHP - Chumdo Fdr.	14.16	+	
				66kV CHP - Gedu Fdr.	0.46	+	
		Total	0.00	Error At Station/Auxiliary Consumption/Losses	0.01		
3	BHP (U/S)	Unit- I	5.40	220kV BHP - Semtokha Fdr.	22.78	+	Upper stage & Lower Stage- Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.95	+	
		Total	5.40	220kV BHP - Tsirang Fdr.	-24.44	+	
	BHP (L/S)	Unit- I	10.80	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.80	Error At Station/Auxiliary Consumption/Losses	0.02		
4	DHPC	Unit-I	15.74	220kV DHPC - Tsirang Fdr.	15.50	+	Unit-II under Maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.74	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	9.85	+	Unit- I and III Standby.Unit- IV AM
		Unit-II	10.12	132kV KHP - Kilikhar Fdr- II	9.55	+	
		Unit- III	10.20	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-37.12	-	
				132kV Motanga - Rangia Fdr.	-5.20	-	
				220kV Tsirang - Jigmeling	2.10	+	
		Total	20.32	Error At Station/Auxiliary Consumption/Losses	0.32		

Note: Load summary on February 01, 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	151.45	261.66	259.55	-112.31	2.11
2	Eastern Grid	20.32	64.74	64.42	-42.32	0.32
Total		171.77	326.40	323.97	-154.63	2.43

Note: Load Summary on February 01, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	302.94	302.94	313.19
2	Eastern Grid	52.57	55.61	72.02
	National	355.51	358.55	385.21

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: February 2, 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	21.35	+	
		Unit- IV	61.08	400kV THP - Malbase Fdr- III	97.22	+	
		Unit- V	0.00	400kV Malbase - Siliguri	7.41	-	
		Unit- VI	60.00				
		Total	121.08	Error At Station/Auxiliary Consumption/Losses	2.51		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		220kV CHP-BIR I under AM 220kV CHP-BIR II under breakdown
		Unit- II	0.14	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	3.82	-	
		Unit- IV	60.90	220kV CHP - Semtokha Fdr- IV	41.81	+	
				220kV Malbase - Birpara Fdr.	-48.99	-	
				66kV CHP - Chumdo Fdr.	10.81	+	
				66kV CHP - Gedu Fdr.	3.03	+	
				3x3MVA, 66/11kV TFR	1.53	+	
		Total	61.04	Error At Station/Auxiliary Consumption/Losses	0.04		
3	BHP (U/S)	Unit- I	5.40	220kV BHP - Semtokha Fdr.	6.97	+	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	13.00	+	
		Total	5.40	220kV BHP - Tsirang Fdr.	-5.39	-	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.88	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.50	Error At Station/Auxiliary Consumption/Losses	0.44		
4	DHPC	Unit-I	15.74	220kV DHPC - Tsirang Fdr.	15.51	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR			
		Total	15.74	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.02	+	Unit- I & III Standby Unit-IV AM
		Unit-II	15.78	132kV KHP - Kilikhar Fdr- II	5.29	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-27.69	-	
				132kV Motanga - Rangia Fdr.	-2.91	-	
				220kV Tsirang - Jigmeling	6.55	+	
		Total	15.78	Error At Station/Auxiliary Consumption/Losses	0.17		

Note: Load summary on February 02, 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	213.76	227.44	224.22	-20.23	3.22
2	Eastern Grid	15.78	52.93	52.76	-30.60	0.17
	Total	229.54	280.37	276.98	-50.83	3.39

Note: Load Summary on February 02, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	275.35	281.83	313.19
2	Eastern Grid	45.53	55.51	72.02
	National	320.88	337.34	385.21

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
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