

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 20, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	80.00	400kV THP - Siliguri Fdr- I	96.29	+	Unit-III & VI under AM.
		Unit- II	90.00	400kV THP - Siliguri Fdr- II	95.70	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	70.00	400kV THP - Malbase Fdr- III	184.50	+	
		Unit- V	140.00	400kV Malbase - Siliguri	68.37	+	
		Unit- VI	0.00				
		Total	380.00	Error At Station/Auxiliary Consumption/Losses	3.51		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	23.47	+	Unit-I under AM. , Unit II standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	23.34	+	
		Unit- III	87.96	220kV CHP - Malbase Fdr- III	55.24	+	
		Unit- IV	89.98	220kV CHP - Semtokha Fdr- IV	55.85	+	
				220kV Malbase - Birpara Fdr.	0.00	-	
				66kV CHP - Chumdo Fdr.	11.22	+	
				66kV CHP - Gedu Fdr.	4.79	+	
				3x3MVA, 66/11kV TFR	1.36	+	
		Total	177.94	Error At Station/Auxiliary Consumption/Losses	2.67		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-10.70	-	Upper Stage Unit-I in standby. Lower Stage Unit II in standby.
		Unit- II	5.19	66kV BHP - Lobeysa Fdr.	11.97	+	
		Total	5.19	220kV BHP - Tsirang Fdr.	15.78	+	
	BHP (L/S)	Unit- I	11.00	5MVA, 66/11kV TFR	0.66	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	11.00	Error At Station/Auxiliary Consumption/Losses	-1.52		
4	DHPC	Unit-I	19.57	220kV DHPC - Tsirang Fdr.	19.32	+	Unit-II in standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	19.57	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	13.22	132kV KHP - Nangkhor Fdr- I	29.59	+	Unit-II standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.74	+	
		Unit- III	13.66	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	13.05	132kV Gelephu - Salakati Fdr.	-6.25	-	
				132kV Motanga - Rangia Fdr.	17.48	+	
				220kV Tsirang - Jigmeling	31.47	+	
		Total	39.93	Error At Station/Auxiliary Consumption/Losses	0.10		

Note: Load summary on April 20, 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	593.70	255.06	250.15	307.17	4.91
2	Eastern Grid	39.93	60.17	60.07	11.23	0.10
	Total	633.63	315.23	310.22	318.40	5.01

Note: Load Summary on April 20, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	267.23	284.06	304.53
2	Eastern Grid	45.70	49.02	71.59
	National	312.93	333.08	376.12

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: April 21, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	80.00	400kV THP - Siliguri Fdr- I	79.00	+	Fdr-IV under shutdown. Unit-III & VI under AM.
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	79.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	70.00	400kV THP - Malbase Fdr- III	125.00	+	
		Unit- V	70.00	400kV Malbase - Siliguri	65.08	+	
		Unit- VI	0.00		283.00		
		Total	290.00	Error At Station/Auxiliary Consumption/Losses	7.00		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	18.00	+	Unit-I under AM. , Unit II standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	17.90	+	
		Unit- III	72.34	220kV CHP - Malbase Fdr- III	83.51	+	
		Unit- IV	72.76	220kV CHP - Semtokha Fdr- IV	12.11	+	
				220kV Malbase - Birpara Fdr.	-33.57	-	
				66kV CHP - Chumdo Fdr.	6.67	+	
				66kV CHP - Gedu Fdr.	5.82	+	
				3x3MVA, 66/11kV TFR	1.13	+	
		Total	145.10	Error At Station/Auxiliary Consumption/Losses	-0.04		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	21.21	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby.
		Unit- II	5.00	66kV BHP - Lobeysa Fdr.	9.25	+	
		Total	5.00	220kV BHP - Tsirang Fdr.	-15.58	-	
	BHP (L/S)	Unit- I	11.80	5MVA, 66/11kV TFR	0.47	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	11.80	Error At Station/Auxiliary Consumption/Losses	1.45		
4	DHPC	Unit-I	19.26	220kV DHPC - Tsirang Fdr.	19.01	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.00	+	
		Total	19.26	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	13.46	132kV KHP - Nangkhor Fdr- I	33.21	+	Unit-II standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.52	+	
		Unit- III	12.60	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	12.14	132kV Gelephu - Salakati Fdr.	-12.08	-	
				132kV Motanga - Rangia Fdr.	3.18	+	
				220kV Tsirang - Jigmeling	1.70	+	
		Total	38.20	Error At Station/Auxiliary Consumption/Losses	0.07		

Note: Load summary on April 21, 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	471.16	244.05	235.39	225.41	8.66
2	Eastern Grid	38.20	48.80	48.73	-8.90	0.07
	Total	509.36	292.85	284.12	216.51	8.73

Note: Load Summary on April 21, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	249.93	265.96	304.53
2	Eastern Grid	32.76	53.54	71.59
	National	282.69	319.50	376.12

Notes:- THP loads collected from site.

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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