

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 5, 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		Fdr IV Idle charged. Fdr I Standby. Unit III,IV & V standby. Unit-I under AM
		Unit- II	127.13	400kV THP - Siliguri Fdr- II	64.23	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	160.35	+	
		Unit- V	0.00	400kV Malbase - Siliguri	37.72	+	
		Unit- VI	100.64				
		Total	227.77	Error At Station/Auxiliary Consumption/Losses	3.19		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit I & IV under AM. □
		Unit- II	63.26	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	61.62	220kV CHP - Malbase Fdr- III	45.26	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	56.32	+	
				220kV Malbase - Birpara Fdr.	-31.42	-	
				66kV CHP - Chumdo Fdr.	11.95	+	
				66kV CHP - Gedu Fdr.	5.90	+	
				3x3MVA, 66/11kV TFR	1.66	+	
		Total	124.88	Error At Station/Auxiliary Consumption/Losses	3.79		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-3.52	-	Upper & Lower stage Unit I Standby. □
		Unit- II	4.94	66kV BHP - Lobeysa Fdr.	12.41	+	
		Total	4.94	220kV BHP - Tsirang Fdr.	5.53	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.85	+	
		Unit- II	9.62	30MVA ICT, 220/66kV			
		Total	9.62	Error At Station/Auxiliary Consumption/Losses	-0.71		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.91	+	Unit-I under AM
		Unit-II	17.20	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.20	Error At Station/Auxiliary Consumption/Losses	0.29		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	18.54	+	Unit-I under AM. Unit-IV at standby.
		Unit-II	14.31	132kV KHP - Kilikhar Fdr- II	9.15	+	
		Unit- III	14.17	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-14.59	-	
				132kV Motanga - Rangia Fdr.	8.89	+	
				220kV Tsirang - Jigmeling	-19.37	-	
		Total	28.48	Error At Station/Auxiliary Consumption/Losses	0.39		

Note: Load summary on April 05, 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	384.41	333.25	326.69	70.53	6.56
2	Eastern Grid	28.48	14.81	14.42	-5.70	0.39
	Total	412.89	348.06	341.11	64.83	6.95

Note: Load Summary on April 05, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	287.64	287.64	304.53
2	Eastern Grid	59.69	56.69	71.59
	National	347.33	344.33	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 6, 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		Fdr IV Idle charged. Fdr I Standby. Unit-I under shutdown. Unit III, IV & V standby.
		Unit- II	136.03	400kV THP - Siliguri Fdr- II	79.28	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	153.98	+	
		Unit- V	0.00	400kV Malbase - Siliguri	57.21	+	
		Unit- VI	101.04				
		Total	237.07	Error At Station/Auxiliary Consumption/Losses	3.81		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	9.01	+	Unit I & IV under AM.
		Unit- II	63.94	220kV CHP - Birpara Fdr- II	9.14	+	
		Unit- III	56.67	220kV CHP - Malbase Fdr- III	64.54	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	22.41	+	
				220kV Malbase - Birpara Fdr.	-34.73	-	
				66kV CHP - Chumdo Fdr.	7.65	+	
				66kV CHP - Gedu Fdr.	6.12	+	
				3x3MVA, 66/11kV TFR	1.07	+	
		Total	120.61	Error At Station/Auxiliary Consumption/Losses	0.67		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	15.83	+	Upper & Lower stage Unit I Standby. □
		Unit- II	7.30	66kV BHP - Lobeysa Fdr.	11.20	+	
		Total	7.30	220kV BHP - Tsirang Fdr.	-4.82	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	14.77	30MVA ICT, 220/66kV			
Total	14.77	Error At Station/Auxiliary Consumption/Losses	-0.56				
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	25.94	+	Unit-I under AM
		Unit-II	26.22	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	26.22	Error At Station/Auxiliary Consumption/Losses	0.28		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	35.38	+	Unit-I under AM.
		Unit-II	12.16	132kV KHP - Kilikhar Fdr- II	4.11	+	
		Unit- III	15.82	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	12.16	132kV Gelephu - Salakati Fdr.	-9.36	-	
				132kV Motanga - Rangia Fdr.	36.22	+	
				220kV Tsirang - Jigmeling	19.41	+	
		Total	40.14	Error At Station/Auxiliary Consumption/Losses	0.25		

Note: Load summary on April 06, 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	405.97	266.65	262.45	119.91	4.20
2	Eastern Grid	40.14	32.69	32.44	26.86	0.25
	Total	446.11	299.34	294.89	146.77	4.45

Note: Load Summary on April 06, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	240.56	292.68	304.53
2	Eastern Grid	38.76	62.79	71.59
	National	279.32	355.47	376.12

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.