

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 13, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.17	400kV THP - Siliguri Fdr- I	0.00		Fdr-IV under shutdown. Fdr I Standby. Unit III,VI under AM. Unit IV standby.
		Unit- II	138.46	400kV THP - Siliguri Fdr- II	166.95	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	243.76	+	
		Unit- V	138.13	400kV Malbase - Siliguri	136.61	+	
		Unit- VI	0.00				
		Total	413.76	Error At Station/Auxiliary Consumption/Losses	3.05		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	25.29	+	Unit I & IV under AM.
		Unit- II	91.71	220kV CHP - Birpara Fdr- II	25.22	+	
		Unit- III	91.26	220kV CHP - Malbase Fdr- III	62.81	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	50.19	+	
				220kV Malbase - Birpara Fdr.	-5.03	-	
				66kV CHP - Chumdo Fdr.	10.49	+	
				66kV CHP - Gedu Fdr.	6.76	+	
		Total	182.97	Error At Station/Auxiliary Consumption/Losses	0.77		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.02	+	Upper & Lower Unit I Standby. □
		Unit- II	6.12	66kV BHP - Lobeysa Fdr.	13.08	+	
		Total	6.12	220kV BHP - Tsirang Fdr.	8.35	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.71	+	
		Unit- II	12.88	30MVA ICT, 220/66kV			
		Total	12.88	Error At Station/Auxiliary Consumption/Losses	-3.16		
4	DHPC	Unit-I	19.23	220kV DHPC - Tsirang Fdr.	19.02	+	Unit-I under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	19.23	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	26.83	+	Unit-I under AM.
		Unit-II	12.72	132kV KHP - Kilikhar Fdr- II	9.82	+	
		Unit- III	12.34	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	12.48	132kV Gelephu - Salakati Fdr.	-16.30	-	
				132kV Motanga - Rangia Fdr.	19.88	+	
				220kV Tsirang - Jigmeling	24.37	+	
		Total	37.54	Error At Station/Auxiliary Consumption/Losses	0.29		

Note: Load summary on April 13, 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	634.96	261.55	260.68	349.04	0.87
2	Eastern Grid	37.54	58.33	58.04	3.58	0.29
Total		672.50	319.88	318.72	352.62	1.16

Note: Load Summary on April 13, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	288.58	288.58	304.53
2	Eastern Grid	59.24	61.37	71.59
National		347.82	349.95	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.

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 14, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.54	400kV THP - Siliguri Fdr- I	0.00		Fdr-IV under shutdown. Fdr I Standby. Unit III,VI under AM. Unit IV standby.
		Unit- II	168.26	400kV THP - Siliguri Fdr- II	214.37	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	255.85	+	
		Unit- V	138.27	400kV Malbase - Siliguri	188.20	+	
		Unit- VI	0.00				
		Total	473.07	Error At Station/Auxiliary Consumption/Losses	2.85		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	43.28	+	Unit I & IV under AM.
		Unit- II	91.09	220kV CHP - Birpara Fdr- II	43.47	+	
		Unit- III	91.60	220kV CHP - Malbase Fdr- III	98.04	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-14.99	-	
				220kV Malbase - Birpara Fdr.	-3.91	-	
				66kV CHP - Chumdo Fdr.	5.72	+	
				66kV CHP - Gedu Fdr.	6.20	+	
				3x3MVA, 66/11kV TFR	1.19	+	
		Total	182.69	Error At Station/Auxiliary Consumption/Losses	-0.22		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	49.59	+	Upper stage & Lower stage Unit I Standby. □
		Unit- II	12.19	66kV BHP - Lobeysa Fdr.	13.74	+	
		Total	12.19	220kV BHP - Tsirang Fdr.	-35.58	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.41	+	
		Unit- II	15.79	30MVA ICT, 220/66kV			
		Total	15.79	Error At Station/Auxiliary Consumption/Losses	-0.18		
4	DHPC	Unit-I	40.28	220kV DHPC - Tsirang Fdr.	40.05	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	40.28	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	44.71	+	Unit-I under AM.
		Unit-II	16.57	132kV KHP - Kilikhar Fdr- II	4.27	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.49	132kV Gelephu - Salakati Fdr.	8.74	+	
				132kV Motanga - Rangia Fdr.	0.06	+	
				220kV Tsirang - Jigmeling	1.69	+	
		Total	49.56	Error At Station/Auxiliary Consumption/Losses	0.18		

Note: Load summary on April 14, 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	724.02	236.92	234.24	485.41	2.68
2	Eastern Grid	49.56	42.45	42.27	8.80	0.18
	Total	773.58	279.37	276.51	494.21	2.86

Note: Load Summary on April 14, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	262.93	285.29	304.53
2	Eastern Grid	52.76	61.12	71.59
	National	315.69	346.41	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.