

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 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		Fdr IV Idle charged. Fdr I Standby. Unit V standby. Unit-I & III under AMP
		Unit- II	120.93	400kV THP - Siliguri Fdr- II	131.53	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	101.48	400kV THP - Malbase Fdr- III	205.70	+	
		Unit- V	0.00	400kV Malbase - Siliguri	105.41	+	
		Unit- VI	120.89				
		Total	343.30	Error At Station/Auxiliary Consumption/Losses	6.07		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	23.60	+	Unit I & IV under AM. 220kV CHP_Birpara II shutdown
		Unit- II	82.00	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	83.00	220kV CHP - Malbase Fdr- III	67.80	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	50.90	+	
				220kV Malbase - Birpara Fdr.	-10.16	-	
				66kV CHP - Chumdo Fdr.	12.60	+	
				66kV CHP - Gedu Fdr.	5.40	+	
		Total	165.00	Error At Station/Auxiliary Consumption/Losses	3.05		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	10.15	+	Upper Lower stage Unit I Standby. □
		Unit- II	5.57	66kV BHP - Lobeysa Fdr.	14.95	+	
		Total	5.57	220kV BHP - Tsirang Fdr.	-6.97	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.26	+	
		Unit- II	12.37	30MVA ICT, 220/66kV			
		Total	12.37	Error At Station/Auxiliary Consumption/Losses	-0.45		
4	DHPC	Unit-I	25.23	220kV DHPC - Tsirang Fdr.	24.98	+	Unit-I under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	25.23	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	13.32	+	Unit-I under AM Unit IV Standby
		Unit-II	12.19	132kV KHP - Kilikhar Fdr- II	10.71	+	
		Unit- III	12.33	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-20.41	-	
				132kV Motanga - Rangia Fdr.	0.67	+	
				220kV Tsirang - Jigmeling	13.97	+	
		Total	24.52	Error At Station/Auxiliary Consumption/Losses	0.19		

Note: Load summary on April 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	551.47	287.12	278.20	250.38	8.92
2	Eastern Grid	24.52	58.23	58.04	-19.74	0.19
	Total	575.99	345.35	336.24	230.64	9.11

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	304.53	304.53	309.57
2	Eastern Grid	68.35	68.35	70.44
	National	372.88	372.88	380.01

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: April 2, 2019
Hours: 09:00 Hours

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

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 V standby. Unit-I & III under AMP
		Unit- II	116.39	400kV THP - Siliguri Fdr- II	94.08	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	61.75	400kV THP - Malbase Fdr- III	141.71	+	
		Unit- V	0.00	400kV Malbase - Siliguri	75.55	+	
		Unit- VI	60.37				
		Total	238.51	Error At Station/Auxiliary Consumption/Losses	2.72		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	21.60	+	Unit I under AM. Unit-IV Standby. 220kV CHP_Birpara II shutdown
		Unit- II	84.50	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	69.71	220kV CHP - Malbase Fdr- III	108.36	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	3.46	+	
				220kV Malbase - Birpara Fdr.	-28.62	-	
				66kV CHP - Chumdo Fdr.	12.16	+	
				66kV CHP - Gedu Fdr.	5.90		
				3x3MVA, 66/11kV TFR	0.89	+	
Total	154.21	Error At Station/Auxiliary Consumption/Losses	1.84				
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	35.73	+	Upper Lower stage Unit I Standby. □
		Unit- II	5.84	66kV BHP - Lobeysa Fdr.	11.67	+	
		Total	5.84	220kV BHP - Tsirang Fdr.	-29.40	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.50	+	
		Unit- II	12.53	30MVA ICT, 220/66kV			
Total	12.53	Error At Station/Auxiliary Consumption/Losses	-0.13				
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.92	+	Unit-I under AM
		Unit-II	22.23	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	22.23	Error At Station/Auxiliary Consumption/Losses	0.31		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	35.40	+	Unit-I under AM
		Unit-II	12.98	132kV KHP - Kilikhar Fdr- II	3.96	+	
		Unit- III	14.04	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	12.99	132kV Gelephu - Salakati Fdr.	-19.44	-	
				132kV Motanga - Rangia Fdr.	9.31	+	
				220kV Tsirang - Jigmeling	9.56	+	
		Total	40.01	Error At Station/Auxiliary Consumption/Losses	0.25		

Note: Load summary on April 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	433.32	261.15	256.41	162.61	4.74
2	Eastern Grid	40.01	59.70	59.45	-10.13	0.25
	Total	473.33	320.85	315.86	152.48	4.99

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	258.22	296.67	309.57
2	Eastern Grid	40.92	53.22	70.44
	National	299.14	349.89	380.01

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.