

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: April 24, 2019
Hours: 19:00 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	117.55	400kV THP - Siliguri Fdr- I	88.89	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	87.42	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	109.34	400kV THP - Malbase Fdr- III	165.65	+	
		Unit- V	118.71	400kV Malbase - Siliguri	66.42	+	
		Unit- VI	0.00				
		Total	345.60	Error At Station/Auxiliary Consumption/Losses	3.64		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	24.91	+	Unit-I under AM. Unit-IV standby
		Unit- II	90.66	220kV CHP - Birpara Fdr- II	24.80	+	
		Unit- III	89.95	220kV CHP - Malbase Fdr- III	71.53	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	43.34	+	
				220kV Malbase - Birpara Fdr.	-13.63	-	
				66kV CHP - Chumdo Fdr.	8.65	+	
				66kV CHP - Gedu Fdr.	5.53	+	
				3x3MVA, 66/11kV TFR	1.21	+	
		Total	180.61	Error At Station/Auxiliary Consumption/Losses	0.64		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-5.08	-	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	4.77	66kV BHP - Lobeysa Fdr.	10.45	+	
		Total	4.77	220kV BHP - Tsirang Fdr.	8.88	+	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.65	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.43	Error At Station/Auxiliary Consumption/Losses	2.30		
4	DHPC	Unit-I	15.26	220kV DHPC - Tsirang Fdr.	15.00	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.26	Error At Station/Auxiliary Consumption/Losses	0.26		
5	KHP	Unit- I	15.77	132kV KHP - Nangkhor Fdr- I	19.43	+	Unit-II & III Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.07	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.34	132kV Gelephu - Salakati Fdr.	-15.56	-	
				132kV Motanga - Rangia Fdr.	18.87	+	
				220kV Tsirang - Jigmeling	31.24	+	
		Total	31.11	Error At Station/Auxiliary Consumption/Losses	1.21		

Note: Load summary on April 24, 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	558.67	248.62	241.78	278.81	6.84
2	Eastern Grid	31.11	59.04	57.83	3.31	1.21
	Total	589.78	307.66	299.61	282.12	8.05

Note: Load Summary on April 24, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	231.82	256.36	304.53
2	Eastern Grid	45.94	45.94	71.59
	National	277.76	302.30	376.12

- 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 25, 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	117.77	400kV THP - Siliguri Fdr- I	139.88	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 14/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	137.49	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	177.91	400kV THP - Malbase Fdr- III	192.11	+	
		Unit- V	176.31	400kV Malbase - Siliguri	118.61	+	
		Unit- VI	0.00				
		Total	471.99	Error At Station/Auxiliary Consumption/Losses	2.51		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	51.68	+	Unit-I under AM. Unit-III Standby
		Unit- II	83.04	220kV CHP - Birpara Fdr- II	51.55	+	
		Unit- III	81.40	220kV CHP - Malbase Fdr- III	106.69	+	
		Unit- IV	82.33	220kV CHP - Semtokha Fdr- IV	22.77	+	
				220kV Malbase - Birpara Fdr.	3.04	-	
				66kV CHP - Chumdo Fdr.	5.50	+	
				66kV CHP - Gedu Fdr.	6.65	+	
				3x3MVA, 66/11kV TFR	0.89	+	
		Total	246.77	Error At Station/Auxiliary Consumption/Losses	1.04		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	6.41	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby. □
		Unit- II	5.16	66kV BHP - Lobeysa Fdr.	8.89	+	
		Total	5.16	220kV BHP - Tsirang Fdr.	0.69	-	
	BHP (L/S)	Unit- I	12.50	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.50	Error At Station/Auxiliary Consumption/Losses	1.29		
4	DHPC	Unit-I	16.75	220kV DHPC - Tsirang Fdr.	16.53	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.00	+	
		Total	16.75	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	16.10	132kV KHP - Nangkhor Fdr- I	44.50	+	Unit-III Standby
		Unit-II	16.14	132kV KHP - Kilikhar Fdr- II	3.49	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.22	132kV Gelephu - Salakati Fdr.	-2.50	-	
				132kV Motanga - Rangia Fdr.	22.17	+	
				220kV Tsirang - Jigmeling	16.23	+	
		Total	48.46	Error At Station/Auxiliary Consumption/Losses	0.22		

Note: Load summary on April 25, 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	753.17	234.69	229.63	502.25	5.06
2	Eastern Grid	48.46	45.02	44.80	19.67	0.22
	Total	801.63	279.71	274.43	521.92	5.28

Note: Load Summary on April 25, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	197.57	211.17	304.53
2	Eastern Grid	32.85	44.99	71.59
	National	230.42	256.16	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.