

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: May 6, 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	137.34	400kV THP - Siliguri Fdr- I	124.87	+	Unit IV AMP
		Unit- II	139.44	400kV THP - Siliguri Fdr- II	124.08	+	
		Unit- III	100.46	400kV THP - Siliguri Fdr- IV	119.35	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	201.33	+	
		Unit- V	99.51	400kV Malbase - Siliguri	99.50	+	
		Unit- VI	100.23				
		Total	576.98	Error At Station/Auxiliary Consumption/Losses	7.35		
2	CHP	Unit- I	69.80	220kV CHP - Birpara Fdr- I	62.80	+	
		Unit- II	74.37	220kV CHP - Birpara Fdr- II	62.64	+	
		Unit- III	77.71	220kV CHP - Malbase Fdr- III	114.93	+	
		Unit- IV	76.66	220kV CHP - Semtokha Fdr- IV	39.17	+	
				220kV Malbase - Birpara Fdr.	13.46	+	
				66kV CHP - Chumdo Fdr.	8.58	+	
				66kV CHP - Gedu Fdr.	6.80	+	
				3x3MVA, 66/11kV TFR	1.42	+	
		Total	298.54	Error At Station/Auxiliary Consumption/Losses	2.20		
3	BHP (U/S)	Unit- I	3.75	220kV BHP - Semtokha Fdr.	-1.65	-	
		Unit- II	3.75	66kV BHP - Lobeysa Fdr.	11.68	+	
		Total	7.50	220kV BHP - Tsirang Fdr.	10.76	+	
	BHP (L/S)	Unit- I	7.80	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	7.05	30MVA ICT, 220/66kV			
		Total	14.85	Error At Station/Auxiliary Consumption/Losses	0.89		
4	DHPC	Unit-I	26.81	220kV DHPC - Tsirang Fdr.	26.58	+	
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	26.81	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	16.19	132kV KHP - Nangkhor Fdr- I	55.18	+	
		Unit-II	16.45	132kV KHP - Kilikhar Fdr- II	9.19	+	
		Unit- III	16.26	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.33	132kV Gelephu - Salakati Fdr.	4.39	+	
				132kV Motanga - Rangia Fdr.	36.52	+	
				220kV Tsirang - Jigmeling	34.59	+	
		Total	65.23	Error At Station/Auxiliary Consumption/Losses	0.26		

Note: Load summary on May 06, 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	924.68	283.39	272.72	606.70	10.67
2	Eastern Grid	65.23	58.91	58.65	40.91	0.26
	Total	989.91	342.30	331.37	647.61	10.93

Note: Load Summary on May 06, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	265.57	266.02	270.60
2	Eastern Grid	54.13	54.13	62.83
	National	319.70	320.15	333.43

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: May 7, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	97.86	400kV THP - Siliguri Fdr- I	111.24	+	Unit IV AMP
		Unit- II	99.11	400kV THP - Siliguri Fdr- II	108.69	+	
		Unit- III	101.33	400kV THP - Siliguri Fdr- IV	107.37	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	163.17	+	
		Unit- V	99.54	400kV Malbase - Siliguri	93.17	+	
		Unit- VI	99.30				
		Total	497.14	Error At Station/Auxiliary Consumption/Losses	6.67		
2	CHP	Unit- I	73.19	220kV CHP - Birpara Fdr- I	59.96	+	
		Unit- II	64.44	220kV CHP - Birpara Fdr- II	59.89	+	
		Unit- III	67.86	220kV CHP - Malbase Fdr- III	125.47	+	
		Unit- IV	67.65	220kV CHP - Semtokha Fdr- IV	12.63	+	
				220kV Malbase - Birpara Fdr.	1.46	+	
				66kV CHP - Chumdo Fdr.	4.43	+	
				66kV CHP - Gedu Fdr.	8.15	+	
				3x3MVA, 66/11kV TFR	0.72	+	
		Total	273.14	Error At Station/Auxiliary Consumption/Losses	1.89		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	14.20	+	Unit-I under standby.
		Unit- II	6.70	66kV BHP - Lobeysa Fdr.	9.12	+	
		Total	6.70	220kV BHP - Tsirang Fdr.	-3.39	-	
	BHP (L/S)	Unit- I	7.00	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	6.48	30MVA ICT, 220/66kV			
		Total	13.48	Error At Station/Auxiliary Consumption/Losses	-0.18		
4	DHPC	Unit-I	24.27	220kV DHPC - Tsirang Fdr.	24.07	+	
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	24.27	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	15.10	132kV KHP - Nangkhor Fdr- I	57.04	+	
		Unit-II	15.20	132kV KHP - Kilikhar Fdr- II	3.75	+	
		Unit- III	16.11	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	15.11	132kV Gelephu - Salakati Fdr.	6.35	+	
				132kV Motanga - Rangia Fdr.	27.13	+	
				220kV Tsirang - Jigmeling	20.26	+	
		Total	61.52	Error At Station/Auxiliary Consumption/Losses	0.43		

Note: Load summary on May 07, 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	814.73	252.69	244.11	541.78	8.58
2	Eastern Grid	61.52	48.30	47.87	33.48	0.43
	Total	876.25	300.99	291.98	575.26	9.01

Note: Load Summary on May 07, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.19	252.53	270.60
2	Eastern Grid	51.29	59.49	62.83
	National	290.48	312.02	333.43

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.