

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 31, 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	80.86	+	Unit-III & V standby Unit I under shutdown
		Unit- II	139.78	400kV THP - Siliguri Fdr- II	80.24	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	77.56	+	
		Unit- IV	141.07	400kV THP - Malbase Fdr- III	154.96	+	
		Unit- V	0.00	400kV Malbase - Siliguri	60.03	+	
		Unit- VI	120.47				
		Total	401.32	Error At Station/Auxiliary Consumption/Losses	7.70		
2	CHP	Unit- I	71.00	220kV CHP - Birpara Fdr- I	32.30	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	31.90	+	
		Unit- III	60.00	220kV CHP - Malbase Fdr- III	80.20	+	
		Unit- IV	69.00	220kV CHP - Semtokha Fdr- IV	40.20	+	
				220kV Malbase - Birpara Fdr.	-6.93	-	
				66kV CHP - Chumdo Fdr.	7.30	+	
				66kV CHP - Gedu Fdr.	6.21	+	
				3x3MVA, 66/11kV TFR	0.84	+	
		Total	200.00	Error At Station/Auxiliary Consumption/Losses	1.05		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.24	+	Upper stage unit I Standby AND Lower stage unit-II standby
		Unit- II	5.80	66kV BHP - Lobeysa Fdr.	10.86	+	
		Total	5.80	220kV BHP - Tsirang Fdr.	13.90	+	
	BHP (L/S)	Unit- I	12.80	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.80	Error At Station/Auxiliary Consumption/Losses	-7.02		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	18.48	+	Unit-I Standby
		Unit-II	18.75	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	18.75	Error At Station/Auxiliary Consumption/Losses	0.27		
5	KHP	Unit- I	16.44	132kV KHP - Nangkhor Fdr- I	61.92	+	
		Unit-II	16.54	132kV KHP - Kilikhar Fdr- II	3.44	+	
		Unit- III	16.28	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.49	132kV Gelephu - Salakati Fdr.	-2.46	-	
				132kV Motanga - Rangia Fdr.	41.55	+	
				220kV Tsirang - Jigmeling	29.17	+	
		Total	65.75	Error At Station/Auxiliary Consumption/Losses	0.09		

Note: Load summary on May 31, 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	638.67	253.54	251.54	355.96	2.00
2	Eastern Grid	65.75	55.83	55.74	39.09	0.09
	Total	704.42	309.37	307.28	395.05	2.09

Note: Load Summary on May 31, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	212.96	240.10	270.60
2	Eastern Grid	57.66	57.66	62.83
	National	270.62	297.76	333.43

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: June 1, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	119.03	400kV THP - Siliguri Fdr- I	80.13	+	Unit-III,IV & V standby
		Unit- II	137.12	400kV THP - Siliguri Fdr- II	78.84	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	76.80	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	153.14	+	
		Unit- V	0.00	400kV Malbase - Siliguri	59.11	+	
		Unit- VI	138.94				
		Total	395.09	Error At Station/Auxiliary Consumption/Losses	6.18		
2	CHP	Unit- I	58.91	220kV CHP - Birpara Fdr- I	27.45	+	Unit- II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	27.46	+	
		Unit- III	56.90	220kV CHP - Malbase Fdr- III	80.91	+	
		Unit- IV	60.20	220kV CHP - Semtokha Fdr- IV	25.84	+	
				220kV Malbase - Birpara Fdr.	-17.10	-	
				66kV CHP - Chumdo Fdr.	6.10	+	
				66kV CHP - Gedu Fdr.	5.44	+	
				3x3MVA, 66/11kV TFR	0.76	+	
		Total	176.01	Error At Station/Auxiliary Consumption/Losses	2.05		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	2.57	+	Upper stage unit I Standby AND Lower stage unit-II standby
		Unit- II	5.60	66kV BHP - Lobeysa Fdr.	9.04	+	
		Total	5.60	220kV BHP - Tsirang Fdr.	6.00	+	
	BHP (L/S)	Unit- I	12.39	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.39	Error At Station/Auxiliary Consumption/Losses	0.01		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.81	+	Unit-I standby.
		Unit-II	20.07	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	20.07	Error At Station/Auxiliary Consumption/Losses	0.26		
5	KHP	Unit- I	12.18	132kV KHP - Nangkhor Fdr- I	49.27	+	
		Unit-II	12.27	132kV KHP - Kilikhar Fdr- II	2.92	+	
		Unit- III	16.63	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	12.07	132kV Gelephu - Salakati Fdr.	1.71	+	
				132kV Motanga - Rangia Fdr.	36.57	+	
				220kV Tsirang - Jigmeling	24.13	+	
		Total	53.15	Error At Station/Auxiliary Consumption/Losses	0.56		

Note: Load summary on June 01, 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	609.16	252.34	243.84	332.69	8.50
2	Eastern Grid	53.15	39.00	38.44	38.28	0.56
	Total	662.31	291.34	282.28	370.97	9.06

Note: Load Summary on June 01, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	NA	NA	NA
2	Eastern Grid	NA	NA	NA
	National	#VALUE!	#VALUE!	#VALUE!

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.