

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: June 2, 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	69.10	400kV THP - Siliguri Fdr- I	54.64	+	Unit-III & V standby □
		Unit- II	70.82	400kV THP - Siliguri Fdr- II	53.48	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	54.06	+	
		Unit- IV	70.89	400kV THP - Malbase Fdr- III	124.77	+	
		Unit- V	0.00	400kV Malbase - Siliguri	36.22	+	
		Unit- VI	80.62				
		Total	291.43	Error At Station/Auxiliary Consumption/Losses	4.48		
2	CHP	Unit- I	71.24	220kV CHP - Birpara Fdr- I	26.21	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	27.10	+	
		Unit- III	51.54	220kV CHP - Malbase Fdr- III	71.50	+	
		Unit- IV	75.56	220kV CHP - Semtokha Fdr- IV	54.30	+	
				220kV Malbase - Birpara Fdr.	-15.66	-	
				66kV CHP - Chumdo Fdr.	7.37	+	
				66kV CHP - Gedu Fdr.	5.60	+	
				3x3MVA, 66/11kV TFR	1.07	+	
		Total	198.34	Error At Station/Auxiliary Consumption/Losses	5.19		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-19.02	-	Upper stage unit I Standby Lower stage unit-II standby
		Unit- II	5.10	66kV BHP - Lobeysa Fdr.	8.62	+	
		Total	5.10	220kV BHP - Tsirang Fdr.	23.80	+	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.50	Error At Station/Auxiliary Consumption/Losses	1.30		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	18.98	+	Unit-I Standby
		Unit-II	19.26	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	19.26	Error At Station/Auxiliary Consumption/Losses	0.28		
5	KHP	Unit- I	12.42	132kV KHP - Nangkhor Fdr- I	40.22	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	12.14	132kV KHP - Kilikhar Fdr- II	8.17	+	
		Unit- III	12.09	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.29	132kV Gelephu - Salakati Fdr.	-4.48	-	
				132kV Motanga - Rangia Fdr.	28.00	+	
				220kV Tsirang - Jigmeling	40.18	+	
		Total	48.94	Error At Station/Auxiliary Consumption/Losses	0.25		

Note: Load summary on June 02, 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	524.63	248.40	237.15	236.05	11.25
2	Eastern Grid	48.94	65.60	65.35	23.52	0.25
	Total	573.57	314.00	302.50	259.57	11.50

Note: Load Summary on June 02, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs 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!

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: June 3, 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	140.00	400kV THP - Siliguri Fdr- I	52.00	+	Unit-III,IV & V standby
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	52.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	49.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	125.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	31.00	+	
		Unit- VI	80.00				
		Total	290.00	Error At Station/Auxiliary Consumption/Losses		12.00	
2	CHP	Unit- I	50.00	220kV CHP - Birpara Fdr- I	17.00	+	Unit- II Standby □
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	17.00	+	
		Unit- III	69.00	220kV CHP - Malbase Fdr- III	68.00	+	
		Unit- IV	30.00	220kV CHP - Semtokha Fdr- IV	30.00	+	
				220kV Malbase - Birpara Fdr.	-25.00	-	
				66kV CHP - Chumdo Fdr.	5.80	+	
				66kV CHP - Gedu Fdr.	5.60	+	
				3x3MVA, 66/11kV TFR	0.76	+	
		Total	149.00	Error At Station/Auxiliary Consumption/Losses		4.84	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	2.14	+	Upper stage unit I Standby Lower stage unit-II standby
		Unit- II	5.10	66kV BHP - Lobeysa Fdr.	9.92	+	
		Total	5.10	220kV BHP - Tsirang Fdr.		6.18	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.25	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
Total	10.50	Error At Station/Auxiliary Consumption/Losses		-2.89			
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.13	+	Unit-I standby.
		Unit-II	17.40	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	17.40	Error At Station/Auxiliary Consumption/Losses		0.27	
5	KHP	Unit- I	13.18	132kV KHP - Nangkhor Fdr- I	48.50	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	13.58	132kV KHP - Kilikhar Fdr- II	3.47	+	
		Unit- III	13.12	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.15	132kV Gelephu - Salakati Fdr.	-1.51	+	
				132kV Motanga - Rangia Fdr.	37.44	+	
				220kV Tsirang - Jigmeling	22.79	+	
		Total	53.03	Error At Station/Auxiliary Consumption/Losses		0.66	

Note: Load summary on June 03, 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	472.00	256.21	241.99	193.00	14.22
2	Eastern Grid	53.03	39.89	39.23	35.93	0.66
	Total	525.03	296.10	281.22	228.93	14.88

Note: Load Summary on June 03, 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:Load collected from site.

- 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.