

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 2, 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	+	Unit-V & 400kV THP-SIL Fdr I standby. Unit-I, II & III under AM. 400kV THP_SIL Fdr II under AM.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	3.07	+	
		Unit- IV	60.45	400kV THP - Malbase Fdr- III	115.45	+	
		Unit- V	0.00	400kV Malbase - Siliguri	-18.82	-	
		Unit- VI	59.96				
		Total	120.41	Error At Station/Auxiliary Consumption/Losses	1.89		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	CHP Units, connected 220kV lines & 2x20MVA Xmers were tripped at 18:36hrs while test charging 220kV CHP_BIR II. 220kV CHP-BIR I under AM.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	0.00	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	0.00	+	
				220kV Malbase - Birpara Fdr.	-92.17	-	
				66kV CHP - Chumdo Fdr.	0.00	+	
				66kV CHP - Gedu Fdr.	0.00	+	
		Total	0.00	Error At Station/Auxiliary Consumption/Losses	0.00		
3	BHP (U/S)	Unit- I	5.40	220kV BHP - Semtokha Fdr.	19.48	+	Upper stage & Lower Stage-Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.36	+	
		Total	5.40	220kV BHP - Tsirang Fdr.	-20.59	-	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.50	Error At Station/Auxiliary Consumption/Losses	-1.34		
4	DHPC	Unit-I	15.55	220kV DHPC - Tsirang Fdr.	15.33	+	Unit-II under Maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.55	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	10.48	132kV KHP - Nangkhor Fdr- I	9.85	+	Unit- I and III Standby.Unit-IV AM
		Unit-II	10.04	132kV KHP - Kilikhar Fdr- II	9.55	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-34.26	-	
				132kV Motanga - Rangia Fdr.	-4.30	-	
				220kV Tsirang - Jigmeling	0.80	+	
		Total	20.52	Error At Station/Auxiliary Consumption/Losses	0.52		

Note: Load summary on February 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	151.86	258.98	258.21	-107.92	0.77
2	Eastern Grid	20.52	59.88	59.36	-38.56	0.52
	Total	172.38	318.86	317.57	-146.48	1.29

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	275.94	281.83	313.19
2	Eastern Grid	55.51	55.51	72.02
	National	331.45	337.34	385.21

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: February 3, 2019
Hours: 09:00 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		Unit-V & 400kV THP-SIL Fdr I standby. Unit-I, II & III under AM. 400kV THP_SIL Fdr II under AM.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	28.06	+	
		Unit- IV	60.18	400kV THP - Malbase Fdr- III	110.17	+	
		Unit- V	0.00	400kV Malbase - Siliguri	13.21	+	
		Unit- VI	79.47				
		Total	139.65	Error At Station/Auxiliary Consumption/Losses	1.42		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		220kV CHP-BIR I under AM 220kV CHP-BIR II under breakdown
		Unit- II	25.28	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	12.00	+	
		Unit- IV	36.09	220kV CHP - Semtokha Fdr- IV	33.56	+	
				220kV Malbase - Birpara Fdr.	-60.51	-	
				66kV CHP - Chumdo Fdr.	9.74	+	
				66kV CHP - Gedu Fdr.	4.84	+	
		Total	61.37	Error At Station/Auxiliary Consumption/Losses	-0.23		
3	BHP (U/S)	Unit- I	5.30	220kV BHP - Semtokha Fdr.	12.98	+	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.26	+	
		Total	5.30	220kV BHP - Tsirang Fdr.	-9.84	-	
	BHP (L/S)	Unit- I	10.30	5MVA, 66/11kV TFR	0.98	+	
		Total	10.30	Error At Station/Auxiliary Consumption/Losses	1.22		
4	DHPC	Unit-I	15.74	220kV DHPC - Tsirang Fdr.	15.51	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR			
		Total	15.74	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	9.49	+	Unit- I & III Standby Unit-IV AM
		Unit-II	15.77	132kV KHP - Kilikhar Fdr- II	5.55	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-23.91	-	
				132kV Motanga - Rangia Fdr.	-4.78	-	
				220kV Tsirang - Jigmeling	0.90	+	
		Total	15.77	Error At Station/Auxiliary Consumption/Losses	0.33		

Note: Load summary on February 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	232.36	250.70	248.06	-19.24	2.64
2	Eastern Grid	15.77	45.36	45.03	-28.69	0.33
	Total	248.13	296.06	293.09	-47.93	2.97

Note: Load Summary on February 03, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	299.48	299.48	313.19
2	Eastern Grid	57.61	57.61	72.02
	National	357.09	357.09	385.21

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.