

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 11, 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 & IV standby. Unit-I, II & III under AM.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	56.42	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	140.48	400kV THP - Malbase Fdr- III	147.94	+	
		Unit- V	0.00	400kV Malbase - Siliguri	34.18	+	
		Unit- VI	70.58				
		Total	211.06	Error At Station/Auxiliary Consumption/Losses	6.70		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	7.60	+	Unit I under AM. 220kV CHP-BIR II under breakdown
		Unit- II	68.56	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	32.50	220kV CHP - Malbase Fdr- III	48.99	+	
		Unit- IV	39.37	220kV CHP - Semtokha Fdr- IV	67.31	+	
				220kV Malbase - Birpara Fdr.	-25.80	-	
				66kV CHP - Chumdo Fdr.	23.48	+	
				66kV CHP - Gedu Fdr.	0.66	+	
		Total	140.43	Error At Station/Auxiliary Consumption/Losses	-9.72		
3	BHP (U/S)	Unit- I	5.56	220kV BHP - Semtokha Fdr.	-10.57	-	Upper stage & Lower Stage- Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.72	+	
		Total	5.56	220kV BHP - Tsirang Fdr.	10.62	+	
	BHP (L/S)	Unit- I	12.00	5MVA, 66/11kV TFR	0.96	+	
		Total	12.00	Error At Station/Auxiliary Consumption/Losses	0.83		
4	DHPC	Unit-I	16.26	220kV DHPC - Tsirang Fdr.	16.05	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	16.26	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	10.31	132kV KHP - Nangkhor Fdr- I	9.12	+	Unit III & IV Standby.
		Unit-II	10.15	132kV KHP - Kilikhar Fdr- II	10.31	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-24.66	-	
				132kV Motanga - Rangia Fdr.	-2.56	-	
				220kV Tsirang - Jigmeling	24.67	+	
		Total	20.46	Error At Station/Auxiliary Consumption/Losses	0.43		

Note: Load summary on February 11, 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	385.31	288.24	290.22	72.40	-1.98
2	Eastern Grid	20.46	72.35	71.92	-27.22	0.43
	Total	405.77	360.59	362.14	45.18	-1.55

Note: Load Summary on February 11, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	301.12	301.12	301.98
2	Eastern Grid	60.01	61.09	70.36
	National	361.13	362.21	372.34

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 12, 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 & IV standby. Unit-I, II & III under AM.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	31.23	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	80.58	400kV THP - Malbase Fdr- III	114.75	+	
		Unit- V	0.00	400kV Malbase - Siliguri	13.19	+	
		Unit- VI	69.52				
		Total	150.10	Error At Station/Auxiliary Consumption/Losses	4.12		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	36.52	+	Unit I under AM. Unit-III Standby 220kV CHP-BIR II under breakdown
		Unit- II	35.89	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	-19.90	-	
		Unit- IV	30.53	220kV CHP - Semtokha Fdr- IV	30.55	+	
				220kV Malbase - Birpara Fdr.	-60.92	-	
				66kV CHP - Chumdo Fdr.	18.49	+	
				66kV CHP - Gedu Fdr.	-0.89	-	
				3x3MVA, 66/11kV TFR	1.37	+	
Total	66.42	Error At Station/Auxiliary Consumption/Losses	0.28				
3	BHP (U/S)	Unit- I	5.45	220kV BHP - Semtokha Fdr.	-4.74	-	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	12.92	+	
		Total	5.45	220kV BHP - Tsirang Fdr.	-11.33	-	
	BHP (L/S)	Unit- I	12.00	5MVA, 66/11kV TFR	0.52	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.00	Error At Station/Auxiliary Consumption/Losses	20.08		
4	DHPC	Unit-I	16.06	220kV DHPC - Tsirang Fdr.	15.85	+	Unit-II AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	16.06	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.77	+	Unit-III & IV Standby
		Unit-II	16.23	132kV KHP - Kilikhar Fdr- II	4.85	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-26.06	-	
				132kV Motanga - Rangia Fdr.	5.70	+	
				220kV Tsirang - Jigmeling	1.92	+	
		Total	16.23	Error At Station/Auxiliary Consumption/Losses	0.21		

Note: Load summary on February 12, 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	250.03	228.09	203.40	20.02	24.69
2	Eastern Grid	16.23	38.51	38.30	-20.36	0.21
	Total	266.26	266.60	241.70	-0.34	24.90

Note: Load Summary on February 12, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	274.01	306.35	301.98
2	Eastern Grid	50.94	68.53	70.36
	National	324.95	374.88	372.34

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.
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