

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 25, 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	+	400kV THP-SIL Fdr I under AM. Unit VI standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	9.11	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	7.08	+	
		Unit- IV	61.31	400kV THP - Malbase Fdr- III	99.20	+	
		Unit- V	58.22	400kV Malbase - Siliguri	-6.25	-	
		Unit- VI	0.00				
		Total	119.53	Error At Station/Auxiliary Consumption/Losses	4.14		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-13.30	-	Unit I under AM. Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-13.20	-	
		Unit- III	32.18	220kV CHP - Malbase Fdr- III	30.10	+	
		Unit- IV	43.61	220kV CHP - Semtokha Fdr- IV	71.04	+	
				220kV Malbase - Birpara Fdr.	-46.19	-	
				66kV CHP - Chumdo Fdr.	6.97	+	
				66kV CHP - Gedu Fdr.	-8.88	-	
				3x3MVA, 66/11kV TFR	1.84	+	
		Total	75.79	Error At Station/Auxiliary Consumption/Losses	1.22		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.00	-	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.30	66kV BHP - Lobeysa Fdr.	16.31	+	
		Total	5.30	220kV BHP - Tsirang Fdr.	-2.15	+	
	BHP (L/S)	Unit- I	10.53	5MVA, 66/11kV TFR	0.78	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.53	Error At Station/Auxiliary Consumption/Losses	0.89		
4	DHPC	Unit-I	17.27	220kV DHPC - Tsirang Fdr.	17.07	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.27	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	11.29	132kV KHP - Nangkhor Fdr- I	11.10	+	Unit IV Standby. Unit-III AM
		Unit-II	10.31	132kV KHP - Kilikhar Fdr- II	9.80	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-22.50	-	
				132kV Motanga - Rangia Fdr.	4.93	+	
				220kV Tsirang - Jigmeling	12.47	+	
		Total	21.60	Error At Station/Auxiliary Consumption/Losses	0.10		

Note: Load summary on February 25, 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	228.42	278.70	272.25	-62.75	6.45
2	Eastern Grid	21.60	51.64	51.54	-17.57	0.10
	Total	250.02	330.34	323.79	-80.32	6.55

Note: Load Summary on February 25, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	307.77	308.67	313.19
2	Eastern Grid	61.37	62.14	72.02
	National	369.14	370.81	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 26, 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 under AM , Fdr II under shutdown by India & V standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	58.71	+	
		Unit- IV	130.82	400kV THP - Malbase Fdr- III	137.03	+	
		Unit- V	0.00	400kV Malbase - Siliguri	45.08	+	
		Unit- VI	69.92				
		Total	200.74	Error At Station/Auxiliary Consumption/Losses		5.00	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	3.40	+	Unit I under AM. Unit-II Standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	3.30	+	
		Unit- III	31.84	220kV CHP - Malbase Fdr- III	47.90	+	
		Unit- IV	64.18	220kV CHP - Semtokha Fdr- IV	40.65	+	
				220kV Malbase - Birpara Fdr.	-29.74	-	
				66kV CHP - Chumdo Fdr.	3.09	+	
				66kV CHP - Gedu Fdr.	-4.30	-	
				3x3MVA, 66/11kV TFR	1.27	+	
		Total	96.02	Error At Station/Auxiliary Consumption/Losses		0.71	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	10.74	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.20	66kV BHP - Lobeysa Fdr.	12.23	+	
		Total	5.20	220kV BHP - Tsirang Fdr.		-7.97	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.45	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.50	Error At Station/Auxiliary Consumption/Losses		0.25	
4	DHPC	Unit-I	18.28	220kV DHPC - Tsirang Fdr.	18.07	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	18.28	Error At Station/Auxiliary Consumption/Losses		0.21	
5	KHP	Unit- I	10.31	132kV KHP - Nangkhor Fdr- I	14.26	+	Unit-IV Standby Unit-III under AM
		Unit-II	10.35	132kV KHP - Kilikhar Fdr- II	5.87	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-17.41	-	
				132kV Motanga - Rangia Fdr.	5.17	+	
				220kV Tsirang - Jigmeling	8.20	+	
		Total	20.66	Error At Station/Auxiliary Consumption/Losses		0.13	

Note: Load summary on February 26, 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	330.74	241.79	235.62	80.75	6.17
2	Eastern Grid	20.66	41.10	40.97	-12.24	0.13
	Total	351.40	282.89	276.59	68.51	6.30

Note: Load Summary on February 26, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	280.24	301.85	313.19
2	Eastern Grid	51.47	65.90	72.02
	National	331.71	367.75	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.

CHP All data receive from site.