

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 27, 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, Fdr II Idly charged by India. Unit 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	42.32	+	
		Unit- IV	121.02	400kV THP - Malbase Fdr- III	135.01	+	
		Unit- V	0.00	400kV Malbase - Siliguri	24.95	+	
		Unit- VI	60.14				
		Total	181.16	Error At Station/Auxiliary Consumption/Losses	3.83		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-10.35	-	Unit I under AM. Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-10.44	-	
		Unit- III	32.27	220kV CHP - Malbase Fdr- III	32.10	+	
		Unit- IV	61.24	220kV CHP - Semtokha Fdr- IV	81.40	+	
				220kV Malbase - Birpara Fdr.	-42.03	-	
				66kV CHP - Chumdo Fdr.	7.80	+	
				66kV CHP - Gedu Fdr.	-10.10	-	
		Total	93.51	Error At Station/Auxiliary Consumption/Losses	0.96		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-3.50	-	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.00	66kV BHP - Lobeysa Fdr.	16.39	+	
		Total	5.00	220kV BHP - Tsirang Fdr.	1.50	+	
	BHP (L/S)	Unit- I	10.30	5MVA, 66/11kV TFR	0.90	+	
		Total	10.30	Error At Station/Auxiliary Consumption/Losses	0.01		
4	DHPC	Unit-I	17.28	220kV DHPC - Tsirang Fdr.	17.08	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.28	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	4.58	+	Unit I & IV Standby. Unit-III AM
		Unit-II	16.36	132kV KHP - Kilikhar Fdr- II	10.77	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-29.95	-	
				132kV Motanga - Rangia Fdr.	-3.95	-	
				220kV Tsirang - Jigmeling	15.70	+	
		Total	16.36	Error At Station/Auxiliary Consumption/Losses	0.41		

Note: Load summary on February 27, 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	307.25	287.10	282.10	4.45	5.00
2	Eastern Grid	16.36	65.96	65.55	-33.90	0.41
	Total	323.61	353.06	347.65	-29.45	5.41

Note: Load Summary on February 27, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	277.43	278.72	313.19
2	Eastern Grid	65.46	65.46	72.02
	National	342.89	344.18	385.21

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.

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: February 28, 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	0.00	400kV THP - Siliguri Fdr- I	0.00	+	400kV THP-SIL Fdr I under AM, Fdr II Idly charged by India. Unit 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	37.04	+	
		Unit- IV	91.11	400kV THP - Malbase Fdr- III	109.24	+	
		Unit- V	0.00	400kV Malbase - Siliguri	24.64	+	
		Unit- VI	59.96				
		Total	151.07	Error At Station/Auxiliary Consumption/Losses	4.79		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-3.96	-	Unit I under AM. Unit-II Standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-4.44	-	
		Unit- III	32.16	220kV CHP - Malbase Fdr- III	36.80	+	
		Unit- IV	45.29	220kV CHP - Semtokha Fdr- IV	49.08	+	
				220kV Malbase - Birpara Fdr.	-36.05	-	
				66kV CHP - Chumdo Fdr.	6.57	+	
				66kV CHP - Gedu Fdr.	-7.20	-	
				3x3MVA, 66/11kV TFR	1.58	+	
		Total	77.45	Error At Station/Auxiliary Consumption/Losses	-0.98		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	13.32	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.30	66kV BHP - Lobeysa Fdr.	14.94	+	
		Total	5.30	220kV BHP - Tsirang Fdr.	-13.15	-	
	BHP (L/S)	Unit- I	10.40	5MVA, 66/11kV TFR	0.59	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.40	Error At Station/Auxiliary Consumption/Losses	0.00		
4	DHPC	Unit-I	19.21	220kV DHPC - Tsirang Fdr.	19.06	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	19.21	Error At Station/Auxiliary Consumption/Losses	0.15		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	13.91	+	Unit-I Standby Unit-III under AM
		Unit-II	10.17	132kV KHP - Kilikhar Fdr- II	5.83	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	10.10	132kV Gelephu - Salakati Fdr.	-19.92	-	
				132kV Motanga - Rangia Fdr.	4.62	+	
				220kV Tsirang - Jigmeling	5.00	+	
		Total	20.27	Error At Station/Auxiliary Consumption/Losses	0.13		

Note: Load summary on February 28, 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	263.43	241.20	237.24	17.23	3.96
2	Eastern Grid	20.27	40.57	40.44	-15.30	0.13
	Total	283.70	281.77	277.68	1.93	4.09

Note: Load Summary on February 28, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	272.49	313.19	313.19
2	Eastern Grid	51.86	61.80	72.02
	National	324.35	374.99	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.