

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 28, 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	69.75	+	
		Unit- IV	80.63	400kV THP - Malbase Fdr- III	156.16	+	
		Unit- V	0.00	400kV Malbase - Siliguri	53.34	+	
		Unit- VI	150.71				
		Total	231.34	Error At Station/Auxiliary Consumption/Losses	5.43		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-1.35	-	Unit I under AM. Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-1.86	-	
		Unit- III	44.96	220kV CHP - Malbase Fdr- III	30.10	+	
		Unit- IV	54.98	220kV CHP - Semtokha Fdr- IV	73.91	+	
				220kV Malbase - Birpara Fdr.	-26.28	-	
				66kV CHP - Chumdo Fdr.	8.54	+	
				66kV CHP - Gedu Fdr.	-10.10	-	
		Total	99.94	Error At Station/Auxiliary Consumption/Losses	-1.43		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	1.62	+	Upper stage Unit I under AM Lower Stage-Unit II Standby.
		Unit- II	6.60	66kV BHP - Lobeysa Fdr.	19.04	+	
		Total	6.60	220kV BHP - Tsirang Fdr.	1.01	+	
	BHP (L/S)	Unit- I	14.60	5MVA, 66/11kV TFR	0.95	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	14.60	Error At Station/Auxiliary Consumption/Losses	-1.42		
4	DHPC	Unit-I	19.23	220kV DHPC - Tsirang Fdr.	19.03	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	19.23	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	4.56	+	Unit I & IV Standby. Unit-III AM
		Unit-II	15.28	132kV KHP - Kilikhar Fdr- II	9.83	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-24.61	-	
				132kV Motanga - Rangia Fdr.	2.92	+	
				220kV Tsirang - Jigmeling	17.20	+	
		Total	15.28	Error At Station/Auxiliary Consumption/Losses	0.29		

Note: Load summary on February 28, 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	371.71	260.91	258.13	93.60	2.78
2	Eastern Grid	15.28	54.17	53.88	-21.69	0.29
Total		386.99	315.08	312.01	71.91	3.07

Note: Load Summary on February 28, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	313.19	313.19	313.19
2	Eastern Grid	60.34	61.80	72.02
	National	373.53	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.

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: March 1, 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	+	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	24.80	+	
		Unit- IV	70.30	400kV THP - Malbase Fdr- III	112.89	+	
		Unit- V	0.00	400kV Malbase - Siliguri	7.86	+	
		Unit- VI	70.74				
		Total	141.04	Error At Station/Auxiliary Consumption/Losses	3.35		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.44	+	Unit I under AM. Unit-II Standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-0.70	-	
		Unit- III	36.97	220kV CHP - Malbase Fdr- III	30.97	+	
		Unit- IV	35.30	220kV CHP - Semtokha Fdr- IV	47.94	+	
				220kV Malbase - Birpara Fdr.	-25.80	-	
				66kV CHP - Chumdo Fdr.	4.87	+	
				66kV CHP - Gedu Fdr.	-7.10	-	
		Total	72.27	Error At Station/Auxiliary Consumption/Losses	-5.49		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	9.20	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.20	66kV BHP - Lobeysa Fdr.	13.67	+	
		Total	5.20	220kV BHP - Tsirang Fdr.	-8.40	-	
	BHP (L/S)	Unit- I	10.20	5MVA, 66/11kV TFR	0.60	+	
		Total	10.20	Error At Station/Auxiliary Consumption/Losses	0.33		
4	DHPC	Unit-I	17.73	220kV DHPC - Tsirang Fdr.	17.55	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.73	Error At Station/Auxiliary Consumption/Losses	0.18		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.90	+	Unit-I & IV Standby Unit-III under AM
		Unit-II	16.46	132kV KHP - Kilikhar Fdr- II	4.98	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-30.10	-	
				132kV Motanga - Rangia Fdr.	4.62	+	
				220kV Tsirang - Jigmeling	1.63	+	
		Total	16.46	Error At Station/Auxiliary Consumption/Losses	0.18		

Note: Load summary on March 01, 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	246.44	238.21	239.84	6.60	-1.63
2	Eastern Grid	16.46	43.57	43.39	-25.48	0.18
	Total	262.90	281.78	283.23	-18.88	-1.45

Note: Load Summary on March 01, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	263.54	308.28	309.57
2	Eastern Grid	44.98	61.73	70.44
	National	308.52	370.01	380.01

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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