LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 16, 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 under AM & IV standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	60.63	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	132.04	400kV THP - Malbase Fdr- III	136.98	+	
		Unit- V	0.00	400kV Malbase - Siliguri	39.41	+	
		Unit- VI	69.10				
		Total	**201.14**	**Error At Station/Auxiliary Consumption/Losses**	**3.53**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-26.31	-	Unit I under AM. Unit-III Standby 66kV CHP-GED line under maintenance.
		Unit- II	48.79	220kV CHP - Birpara Fdr- II	48.27	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	0.00	+	
		Unit- IV	59.71	220kV CHP - Semtokha Fdr- IV	58.67	+	
				220kV Malbase - Birpara Fdr.	-36.16	-	
				66kV CHP - Chumdo Fdr.	23.68	+	
				66kV CHP - Gedu Fdr.	0.00	-	
				3x3MVA, 66/11kV TFR	2.10	+	
		Total	**108.50**	**Error At Station/Auxiliary Consumption/Losses**	**2.09**		
3	**BHP (U/S)**	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-4.74	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	4.99	66kV BHP - Lobeysa Fdr.	15.15	+	
		Total	**4.99**	220kV BHP - Tsirang Fdr.	2.59	+	
	BHP (L/S)	Unit- I	10.00	5MVA, 66/11kV TFR	0.83	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**10.00**	**Error At Station/Auxiliary Consumption/Losses**	**1.16**		
4	**DHPC**	Unit-I	16.23	220kV DHPC - Tsirang Fdr.	16.03	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	**16.23**	**Error At Station/Auxiliary Consumption/Losses**	**0.20**		
5	**KHP**	Unit- I	16.16	132kV KHP - Nangkhor Fdr- I	21.63	+	Unit IV Standby, Unit-III AM
		Unit-II	16.22	132kV KHP - Kilikhar Fdr- II	9.82	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.90	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-20.36	-	
				132kV Motanga - Rangia Fdr.	12.50	+	
				220kV Tsirang - Jigmeling	15.42	+	
		Total	**32.38**	**Error At Station/Auxiliary Consumption/Losses**	**0.03**		

Note: Load summary on February 16, 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**	340.86	239.60	232.62	85.84	6.98
2	**Eastern Grid**	32.38	55.66	55.63	-7.86	0.03
	Total	373.24	295.26	288.25	77.98	7.01

Note: Load Summary on February 16, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	287.05	287.05	313.19
2	**Eastern Grid**	57.73	57.73	72.02
	National	**344.78**	**344.78**	**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 17, 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 & IV standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	40.85	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	90.55	400kV THP - Malbase Fdr- III	115.22	+	
		Unit- V	0.00	400kV Malbase - Siliguri	22.44	+	
		Unit- VI	69.80				
		Total	**160.35**	**Error At Station/Auxiliary Consumption/Losses**	**4.28**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-18.02	-	Unit I under AM. Unit-III Standby 220kV CHP-MAL III AM
		Unit- II	33.02	220kV CHP - Birpara Fdr- II	32.88	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	0.00		
		Unit- IV	33.35	220kV CHP - Semtokha Fdr- IV	30.90	+	
				220kV Malbase - Birpara Fdr.	-45.00	-	
				66kV CHP - Chumdo Fdr.	18.30	+	
				66kV CHP - Gedu Fdr.	0.00	-	
				3x3MVA, 66/11kV TFR	1.37	+	
		Total	**66.37**	**Error At Station/Auxiliary Consumption/Losses**	**0.94**		
3	**BHP (U/S)**	Unit- I	4.99	220kV BHP - Semtokha Fdr.	11.82	+	Upper stage & Lower Stage-Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	11.44	+	
		Total	**4.99**	220kV BHP - Tsirang Fdr.	-6.79	-	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.57	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**12.43**	**Error At Station/Auxiliary Consumption/Losses**	**0.38**		
4	**DHPC**	Unit-I	18.54	220kV DHPC - Tsirang Fdr.	18.35	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	**18.54**	**Error At Station/Auxiliary Consumption/Losses**	**0.19**		
5	**KHP**	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	0.00		132kV KHP-NKO under shutdown (9:00hrs-17:00hrs)
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	0.00		
		Unit- III	0.00	5MVA, 132/11kV TFR	0.00		
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-18.47	-	
				132kV Motanga - Rangia Fdr.	-9.63	-	
				220kV Tsirang - Jigmeling	9.60	+	
		Total	**0.00**	**Error At Station/Auxiliary Consumption/Losses**	**0.00**		

Note: Load summary on February 17, 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**	262.68	219.93	214.14	33.15	5.79
2	**Eastern Grid**	0.00	37.70	37.70	-28.10	0.00
	Total	262.68	257.63	251.84	5.05	5.79

Note: Load Summary on February 17, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	269.82	290.49	313.19
2	**Eastern Grid**	47.74	65.37	72.02
	National	**317.56**	**355.86**	**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.
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