LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 18, 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-IV & 400kV THP-SIL Fdr I under AM & IV standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	66.17	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	149.00	+	
		Unit- V	138.03	400kV Malbase - Siliguri	43.33	+	
		Unit- VI	79.30				
		Total	**217.33**	**Error At Station/Auxiliary Consumption/Losses**	**2.16**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-35.48	-	Unit I under AM. 220kV CHP_MAL line & 66kV CHP-GED line under maintenance.
		Unit- II	43.75	220kV CHP - Birpara Fdr- II	83.67	+	
		Unit- III	40.32	220kV CHP - Malbase Fdr- III	0.00	+	
		Unit- IV	49.70	220kV CHP - Semtokha Fdr- IV	61.77	+	
				220kV Malbase - Birpara Fdr.	-42.71	-	
				66kV CHP - Chumdo Fdr.	19.70	+	
				66kV CHP - Gedu Fdr.	0.00	+	
				3x3MVA, 66/11kV TFR	2.10	+	
		Total	**133.77**	**Error At Station/Auxiliary Consumption/Losses**	**2.01**		
3	**BHP (U/S)**	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-3.05	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	4.99	66kV BHP - Lobeysa Fdr.	15.74	+	
		Total	**4.99**	220kV BHP - Tsirang Fdr.	2.13	+	
	BHP (L/S)	Unit- I	10.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**10.00**	**Error At Station/Auxiliary Consumption/Losses**	**-0.73**		
4	**DHPC**	Unit-I	15.55	220kV DHPC - Tsirang Fdr.	15.30	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	**15.55**	**Error At Station/Auxiliary Consumption/Losses**	**0.25**		
5	**KHP**	Unit- I	10.30	132kV KHP - Nangkhor Fdr- I	8.40	+	Unit II Standby, Unit-III AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	11.30	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	10.18	132kV Gelephu - Salakati Fdr.	-24.01	-	
				132kV Motanga - Rangia Fdr.	9.15	+	
				220kV Tsirang - Jigmeling	14.60	+	
		Total	**20.48**	**Error At Station/Auxiliary Consumption/Losses**	**0.18**		

Note: Load summary on February 18, 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**	381.64	252.06	248.37	114.98	3.69
2	**Eastern Grid**	20.48	49.94	49.76	-14.86	0.18
	Total	402.12	302.00	298.13	100.12	3.87

Note: Load Summary on February 18, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	283.88	283.88	313.19
2	**Eastern Grid**	60.13	60.13	72.02
	National	**344.01**	**344.01**	**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 19, 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	27.27	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	100.08	+	
		Unit- V	69.20	400kV Malbase - Siliguri	10.91	+	
		Unit- VI	59.99				
		Total	**129.19**	**Error At Station/Auxiliary Consumption/Losses**	**1.84**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-6.30	-	Unit I under AM. Unit-III Standby 220kV CHP_MAL line & 66kV CHP-GED line under maintenance.
		Unit- II	30.68	220kV CHP - Birpara Fdr- II	30.70	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	0.00	+	
		Unit- IV	34.72	220kV CHP - Semtokha Fdr- IV	23.77	+	
				220kV Malbase - Birpara Fdr.	-60.26	-	
				66kV CHP - Chumdo Fdr.	16.70	+	
				66kV CHP - Gedu Fdr.	0.00	-	
				3x3MVA, 66/11kV TFR	1.29	+	
		Total	**65.40**	**Error At Station/Auxiliary Consumption/Losses**	**-0.76**		
3	**BHP (U/S)**	Unit- I	5.50	220kV BHP - Semtokha Fdr.	18.89	+	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	11.81	+	
		Total	**5.50**	220kV BHP - Tsirang Fdr.	-14.84	-	
	BHP (L/S)	Unit- I	10.30	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**10.30**	**Error At Station/Auxiliary Consumption/Losses**	**-0.68**		
4	**DHPC**	Unit-I	17.28	220kV DHPC - Tsirang Fdr.	17.06	+	Unit-II maintenance.
		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**	**0.22**		
5	**KHP**	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	9.39	+	Unit I & II Standby, Unit-III AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.47	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.23	132kV Gelephu - Salakati Fdr.	-29.92	-	
				132kV Motanga - Rangia Fdr.	6.95	+	
				220kV Tsirang - Jigmeling	0.02	+	
		Total	**16.23**	**Error At Station/Auxiliary Consumption/Losses**	**-0.03**		

Note: Load summary on February 19, 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**	227.67	225.33	224.71	2.32	0.62
2	**Eastern Grid**	16.23	39.22	39.25	-22.97	-0.03
	Total	243.90	264.55	263.96	-20.65	0.59

Note: Load Summary on February 19, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	267.23	298.53	313.19
2	**Eastern Grid**	46.54	67.75	72.02
	National	**313.77**	**366.28**	**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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