LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 19, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	**THP**	Unit- I	80.06	400kV THP - Siliguri Fdr- I	89.05	+	Fdr-IV under shutdown. Unit-III & VI under AM.
		Unit- II	139.03	400kV THP - Siliguri Fdr- II	87.95	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	71.21	400kV THP - Malbase Fdr- III	178.47	+	
		Unit- V	68.47	400kV Malbase - Siliguri	63.26	+	
		Unit- VI	0.00				
		Total	**358.77**	**Error At Station/Auxiliary Consumption/Losses**	**3.30**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	19.55	+	Unit-I under AM. , Unit II shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	19.50	+	
		Unit- III	86.13	220kV CHP - Malbase Fdr- III	58.52	+	
		Unit- IV	85.40	220kV CHP - Semtokha Fdr- IV	54.86	+	
				220kV Malbase - Birpara Fdr.	-12.15	-	
				66kV CHP - Chumdo Fdr.	10.73	+	
				66kV CHP - Gedu Fdr.	5.78	+	
				3x3MVA, 66/11kV TFR	1.41	+	
		Total	**171.53**	**Error At Station/Auxiliary Consumption/Losses**	**1.18**		
3	**BHP (U/S)**	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-9.64	-	Upper Stage Unit-I in standby. Lower Stage Unit II in standby.
		Unit- II	5.45	66kV BHP - Lobeysa Fdr.	11.93	+	
		Total	**5.45**	220kV BHP - Tsirang Fdr.	15.11	+	
	BHP (L/S)	Unit- I	11.50	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**11.50**	**Error At Station/Auxiliary Consumption/Losses**	**-1.34**		
4	**DHPC**	Unit-I	18.28	220kV DHPC - Tsirang Fdr.	18.01	+	Unit-II in standby
		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**	**0.27**		
5	**KHP**	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	38.70	+	Unit-I under AM.
		Unit-II	16.46	132kV KHP - Kilikhar Fdr- II	9.68	+	
		Unit- III	16.41	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.25	132kV Gelephu - Salakati Fdr.	-9.04	-	
				132kV Motanga - Rangia Fdr.	21.92	+	
				220kV Tsirang - Jigmeling	30.01	+	
		Total	**49.12**	**Error At Station/Auxiliary Consumption/Losses**	**0.24**		

Note: Load summary on April 19, 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**	565.53	268.36	264.95	267.16	3.41
2	**Eastern Grid**	49.12	66.25	66.01	12.88	0.24
	Total	614.65	334.61	330.96	280.04	3.65

Note: Load Summary on April 19, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	274.16	274.16	304.53
2	**Eastern Grid**	57.96	57.96	71.59
	National	**332.12**	**332.12**	**376.12**

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: April 20, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	**THP**	Unit- I	79.82	400kV THP - Siliguri Fdr- I	80.93	+	Fdr-IV under shutdown. Unit-III &VI under AM.
		Unit- II	86.16	400kV THP - Siliguri Fdr- II	80.46	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	71.40	400kV THP - Malbase Fdr- III	141.44	+	
		Unit- V	68.92	400kV Malbase - Siliguri	63.34	+	
		Unit- VI	0.00				
		Total	**306.30**	**Error At Station/Auxiliary Consumption/Losses**	**3.47**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	26.22	+	Unit-I under AM. , Unit II shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	26.13	+	
		Unit- III	83.29	220kV CHP - Malbase Fdr- III	76.38	+	
		Unit- IV	84.57	220kV CHP - Semtokha Fdr- IV	25.43	+	
				220kV Malbase - Birpara Fdr.	-15.73	-	
				66kV CHP - Chumdo Fdr.	6.42	+	
				66kV CHP - Gedu Fdr.	6.31	+	
				3x3MVA, 66/11kV TFR	0.90	+	
		Total	**167.86**	**Error At Station/Auxiliary Consumption/Losses**	**0.07**		
3	**BHP (U/S)**	Unit- I	0.00	220kV BHP - Semtokha Fdr.	7.57	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby.
		Unit- II	5.50	66kV BHP - Lobeysa Fdr.	9.46	+	
		Total	**5.50**	220kV BHP - Tsirang Fdr.	-0.52	-	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**12.43**	**Error At Station/Auxiliary Consumption/Losses**	**1.05**		
4	**DHPC**	Unit-I	19.79	220kV DHPC - Tsirang Fdr.	19.55	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.00	+	
		Total	**19.79**	**Error At Station/Auxiliary Consumption/Losses**	**0.24**		
5	**KHP**	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	40.52	+	Unit-I under AM.
		Unit-II	15.11	132kV KHP - Kilikhar Fdr- II	4.29	+	
		Unit- III	15.14	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	15.02	132kV Gelephu - Salakati Fdr.	-2.40	-	
				132kV Motanga - Rangia Fdr.	23.17	+	
				220kV Tsirang - Jigmeling	18.10	+	
		Total	**45.27**	**Error At Station/Auxiliary Consumption/Losses**	**-0.04**		

Note: Load summary on April 20, 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**	511.88	232.43	227.60	261.35	4.83
2	**Eastern Grid**	45.27	42.60	42.64	20.77	-0.04
	Total	557.15	275.03	270.24	282.12	4.79

Note: Load Summary on April 20, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	246.89	284.06	304.53
2	**Eastern Grid**	33.67	49.02	71.59
	National	**280.56**	**333.08**	**376.12**

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.