LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 3, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	**THP**	Unit- I	69.47	400kV THP - Siliguri Fdr- I	162.28	+	400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	87.17	400kV THP - Siliguri Fdr- II	160.80	+	
		Unit- III	120.54	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	98.30	400kV THP - Malbase Fdr- III	214.98	+	
		Unit- V	78.59	400kV Malbase - Siliguri	139.93	+	
		Unit- VI	90.33				
		Total	**544.40**	**Error At Station/Auxiliary Consumption/Losses**	**6.34**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	51.88	+	Unit-I under AM.
		Unit- II	90.55	220kV CHP - Birpara Fdr- II	50.93	+	
		Unit- III	91.36	220kV CHP - Malbase Fdr- III	114.37	+	
		Unit- IV	91.47	220kV CHP - Semtokha Fdr- IV	37.27	+	
				220kV Malbase - Birpara Fdr.	-4.77	-	
				66kV CHP - Chumdo Fdr.	9.01	+	
				66kV CHP - Gedu Fdr.	7.53	+	
				3x3MVA, 66/11kV TFR	1.41	+	
		Total	**273.38**	**Error At Station/Auxiliary Consumption/Losses**	**0.98**		
3	**BHP (U/S)**	Unit- I	0.00	220kV BHP - Semtokha Fdr.	4.18	+	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	5.48	66kV BHP - Lobeysa Fdr.	12.13	+	
		Total	**5.48**	220kV BHP - Tsirang Fdr.	-2.73	-	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**12.43**	**Error At Station/Auxiliary Consumption/Losses**	**3.66**		
4	**DHPC**	Unit-I	17.27	220kV DHPC - Tsirang Fdr.	17.05	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	**17.27**	**Error At Station/Auxiliary Consumption/Losses**	**0.22**		
5	**KHP**	Unit- I	16.41	132kV KHP - Nangkhor Fdr- I	55.83	+	
		Unit-II	16.46	132kV KHP - Kilikhar Fdr- II	9.29	+	
		Unit- III	16.78	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.37	132kV Gelephu - Salakati Fdr.	-9.64	-	
				132kV Motanga - Rangia Fdr.	19.83	+	
				220kV Tsirang - Jigmeling	-10.72	-	
		Total	**66.02**	**Error At Station/Auxiliary Consumption/Losses**	**0.50**		

Note: Load summary on May 03, 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**	852.96	302.63	291.43	561.05	11.20
2	**Eastern Grid**	66.02	45.11	44.61	10.19	0.50
	Total	918.98	347.74	336.04	571.24	11.70

Note: Load Summary on May 03, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	246.53	247.64	270.60
2	**Eastern Grid**	51.33	52.94	62.83
	National	**297.86**	**300.58**	**333.43**

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: May 4, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	**THP**	Unit- I	162.46	400kV THP - Siliguri Fdr- I	329.60	+	400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	167.00	400kV THP - Siliguri Fdr- II	327.19	+	
		Unit- III	170.66	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	168.84	400kV THP - Malbase Fdr- III	339.35	+	
		Unit- V	165.89	400kV Malbase - Siliguri	303.27	+	
		Unit- VI	170.75				
		Total	**1,005.60**	**Error At Station/Auxiliary Consumption/Losses**	**9.46**		
2	**CHP**	Unit- I	91.57	220kV CHP - Birpara Fdr- I	96.42	+	
		Unit- II	91.36	220kV CHP - Birpara Fdr- II	96.48	+	
		Unit- III	90.96	220kV CHP - Malbase Fdr- III	180.60	+	
		Unit- IV	91.78	220kV CHP - Semtokha Fdr- IV	-23.36	+	
				220kV Malbase - Birpara Fdr.	18.14	-	
				66kV CHP - Chumdo Fdr.	4.01	+	
				66kV CHP - Gedu Fdr.	9.29	+	
				3x3MVA, 66/11kV TFR	0.94	+	
		Total	**365.67**	**Error At Station/Auxiliary Consumption/Losses**	**1.29**		
3	**BHP (U/S)**	Unit- I	9.30	220kV BHP - Semtokha Fdr.	52.34	+	
		Unit- II	9.20	66kV BHP - Lobeysa Fdr.	15.52	+	
		Total	**18.50**	220kV BHP - Tsirang Fdr.	-13.43	-	
	BHP (L/S)	Unit- I	18.00	5MVA, 66/11kV TFR	0.46	+	
		Unit- II	18.60	30MVA ICT, 220/66kV			
		Total	**36.60**	**Error At Station/Auxiliary Consumption/Losses**	**0.21**		
4	**DHPC**	Unit-I	45.29	220kV DHPC - Tsirang Fdr.	45.04	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	**45.29**	**Error At Station/Auxiliary Consumption/Losses**	**0.25**		
5	**KHP**	Unit- I	16.43	132kV KHP - Nangkhor Fdr- I	59.75	+	
		Unit-II	16.44	132kV KHP - Kilikhar Fdr- II	5.19	+	
		Unit- III	16.56	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.47	132kV Gelephu - Salakati Fdr.	13.96	+	
				132kV Motanga - Rangia Fdr.	28.24	+	
				220kV Tsirang - Jigmeling	29.76	+	
		Total	**65.90**	**Error At Station/Auxiliary Consumption/Losses**	**0.66**		

Note: Load summary on May 04, 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**	1,471.66	270.80	259.59	1,171.10	11.21
2	**Eastern Grid**	65.90	53.46	52.80	42.20	0.66
	Total	1,537.56	324.26	312.39	1,213.30	11.87

Note: Load Summary on May 04, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	229.52	270.36	270.60
2	**Eastern Grid**	41.92	55.95	62.83
	National	**271.44**	**326.31**	**333.43**

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.