LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 29, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	**THP**	Unit- I	137.36	400kV THP - Siliguri Fdr- I	163.98	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	138.31	400kV THP - Siliguri Fdr- II	163.06	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	138.55	400kV THP - Malbase Fdr- III	221.89	+	
		Unit- V	138.32	400kV Malbase - Siliguri	139.94	+	
		Unit- VI	0.00				
		Total	**552.54**	**Error At Station/Auxiliary Consumption/Losses**	**3.61**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	51.86	+	Unit-I under AM.
		Unit- II	91.32	220kV CHP - Birpara Fdr- II	51.76	+	
		Unit- III	91.58	220kV CHP - Malbase Fdr- III	114.52	+	
		Unit- IV	91.44	220kV CHP - Semtokha Fdr- IV	36.38	+	
				220kV Malbase - Birpara Fdr.	-1.84	-	
				66kV CHP - Chumdo Fdr.	8.69	+	
				66kV CHP - Gedu Fdr.	7.83	+	
				3x3MVA, 66/11kV TFR	1.30	+	
		Total	**274.34**	**Error At Station/Auxiliary Consumption/Losses**	**2.00**		
3	**BHP (U/S)**	Unit- I	0.00	220kV BHP - Semtokha Fdr.	4.65	+	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	6.02	66kV BHP - Lobeysa Fdr.	12.69	+	
		Total	**6.02**	220kV BHP - Tsirang Fdr.	0.00	+	
	BHP (L/S)	Unit- I	13.00	5MVA, 66/11kV TFR	22.03	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**13.00**	**Error At Station/Auxiliary Consumption/Losses**	**-20.35**		
4	**DHPC**	Unit-I	22.24	220kV DHPC - Tsirang Fdr.	22.02	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	**22.24**	**Error At Station/Auxiliary Consumption/Losses**	**0.22**		
5	**KHP**	Unit- I	16.34	132kV KHP - Nangkhor Fdr- I	54.81	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	9.74	+	
		Unit- III	16.49	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.36	132kV Gelephu - Salakati Fdr.	-4.72	-	
				132kV Motanga - Rangia Fdr.	28.69	+	
				220kV Tsirang - Jigmeling	18.85	+	
		Total	**65.69**	**Error At Station/Auxiliary Consumption/Losses**	**0.74**		

Note: Load summary on April 29, 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**	868.14	280.53	295.05	568.76	-14.52
2	**Eastern Grid**	65.69	60.57	59.83	23.97	0.74
	Total	933.83	341.10	354.88	592.73	-13.78

Note: Load Summary on April 29, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	193.88	193.88	304.53
2	**Eastern Grid**	61.26	61.26	71.59
	National	**255.14**	**255.14**	**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 30, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	**THP**	Unit- I	137.32	400kV THP - Siliguri Fdr- I	166.68	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	137.64	400kV THP - Siliguri Fdr- II	164.75	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	108.99	400kV THP - Malbase Fdr- III	187.07	+	
		Unit- V	137.97	400kV Malbase - Siliguri	149.83	+	
		Unit- VI	0.00				
		Total	**521.92**	**Error At Station/Auxiliary Consumption/Losses**	**3.42**		
2	**CHP**	Unit- I	0.00	220kV CHP - Birpara Fdr- I	58.17	+	Unit-I under AM.
		Unit- II	90.52	220kV CHP - Birpara Fdr- II	57.91	+	
		Unit- III	91.37	220kV CHP - Malbase Fdr- III	141.75	+	
		Unit- IV	91.80	220kV CHP - Semtokha Fdr- IV	1.93	+	
				220kV Malbase - Birpara Fdr.	-13.41	-	
				66kV CHP - Chumdo Fdr.	4.24	+	
				66kV CHP - Gedu Fdr.	8.23	+	
				3x3MVA, 66/11kV TFR	0.84	+	
		Total	**273.69**	**Error At Station/Auxiliary Consumption/Losses**	**0.62**		
3	**BHP (U/S)**	Unit- I	0.00	220kV BHP - Semtokha Fdr.	26.74	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby.
		Unit- II	5.65	66kV BHP - Lobeysa Fdr.	10.06	+	
		Total	**5.65**	220kV BHP - Tsirang Fdr.	-19.37	-	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.34	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	**12.43**	**Error At Station/Auxiliary Consumption/Losses**	**0.31**		
4	**DHPC**	Unit-I	20.26	220kV DHPC - Tsirang Fdr.	20.07	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	**20.26**	**Error At Station/Auxiliary Consumption/Losses**	**0.19**		
5	**KHP**	Unit- I	16.48	132kV KHP - Nangkhor Fdr- I	61.02	+	
		Unit-II	16.52	132kV KHP - Kilikhar Fdr- II	4.03	+	
		Unit- III	16.60	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.55	132kV Gelephu - Salakati Fdr.	-2.40	-	
				132kV Motanga - Rangia Fdr.	19.10	+	
				220kV Tsirang - Jigmeling	1.80	+	
		Total	**66.15**	**Error At Station/Auxiliary Consumption/Losses**	**0.80**		

Note: Load summary on April 30, 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**	833.95	248.22	243.68	583.93	4.54
2	**Eastern Grid**	66.15	51.25	50.45	16.70	0.80
	Total	900.10	299.47	294.13	600.63	5.34

Note: Load Summary on April 30, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	**Western Grid**	151.29	204.79	304.53
2	**Eastern Grid**	42.32	59.44	71.59
	National	**193.61**	**264.23**	**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.
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