

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: June 11, 2018
Hours: 19:00 Hours

Date	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders		Sign	Remarks
1	THP	Unit- I	98.83	400kV THP - Siliguri Fdr- I	110.47	+	Unit- IV Standby. □
		Unit- II	138.33	400kV THP - Siliguri Fdr- II	109.81	+	
		Unit- III	79.57	400kV THP - Siliguri Fdr- IV	106.32	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	205.08	+	
		Unit- V	79.50	400kV Malbase - Siliguri	84.25	+	
		Unit- VI	140.23				
		Total	536.46	Error At Station/Auxiliary Consumption/Losses	4.78		
2	CHP	Unit- I	58.21	220kV CHP - Birpara Fdr- I	42.59	+	
		Unit- II	50.67	220kV CHP - Birpara Fdr- II	42.65	+	
		Unit- III	63.55	220kV CHP - Malbase Fdr- III	80.38	+	
		Unit- IV	62.47	220kV CHP - Semtokha Fdr- IV	47.30	+	
				220kV Malbase - Birpara Fdr.	8.55	+	
				66kV CHP - Chumdo Fdr.	11.87	+	
				66kV CHP - Gedu Fdr.	7.81	+	
				3x3MVA, 66/11kV TFR	1.03	+	
		Total	234.90	Error At Station/Auxiliary Consumption/Losses	1.27		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-22.66	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	6.22	66kV BHP - Lobeysa Fdr.	8.77	+	
		Total	6.22	220kV BHP - Tsirang Fdr.	29.76	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	11.45	30MVA ICT, 220/66kV			
		Total	11.45	Error At Station/Auxiliary Consumption/Losses	0.91		
4	DHPC	Unit-I	20.24	220kV DHPC - Tsirang Fdr.	20.00	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	20.24	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	16.18	132kV KHP - Nangkhor Fdr- I	56.50	+	
		Unit-II	16.34	132kV KHP - Kilikhar Fdr- II	7.80	+	
		Unit- III	16.37	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.41	132kV Gelephu - Salakati Fdr.	6.69	+	
				132kV Motanga - Rangia Fdr.	49.18	+	
				220kV Tsirang - Jigmeling	49.00	+	
		Total	65.30	Error At Station/Auxiliary Consumption/Losses	0.70		

Note: Load summary on June 11, 2018 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	809.27	255.63	248.43	504.64	7.20
2	Eastern Grid	65.30	58.43	57.73	55.87	0.70
	Total	874.57	314.06	306.16	560.51	7.90

Note: Load Summary on June 11, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	246.76	246.76	286.43
2	Eastern Grid	44.19	47.51	67.48
	National	290.95	294.27	342.69

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)
24-Feb-18	18:34hrs	375.23

Date: June 12, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	156.38	400kV THP - Siliguri Fdr- I	133.56	+	Unit-IV & V Standby.
		Unit- II	137.69	400kV THP - Siliguri Fdr- II	131.65	+	
		Unit- III	139.43	400kV THP - Siliguri Fdr- IV	129.28	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	174.05	+	
		Unit- V	0.00	400kV Malbase - Siliguri	115.86	+	
		Unit- VI	140.00				
		Total	573.50	Error At Station/Auxiliary Consumption/Losses	4.96		
2	CHP	Unit- I	80.31	220kV CHP - Birpara Fdr- I	76.58	+	
		Unit- II	83.06	220kV CHP - Birpara Fdr- II	76.47	+	
		Unit- III	78.27	220kV CHP - Malbase Fdr- III	141.56	+	
		Unit- IV	80.41	220kV CHP - Semtokha Fdr- IV	6.49	+	
				220kV Malbase - Birpara Fdr.	16.96	+	
				66kV CHP - Chumdo Fdr.	8.12	+	
				66kV CHP - Gedu Fdr.	10.83	+	
				3x3MVA, 66/11kV TFR	0.71	+	
		Total	322.05	Error At Station/Auxiliary Consumption/Losses	1.29		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	9.69	+	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	11.17	66kV BHP - Lobeysa Fdr.	8.95	+	
		Total	11.17	220kV BHP - Tsirang Fdr.	9.22	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.48	+	
		Unit- II	17.15	30MVA ICT, 220/66kV			
		Total	17.15	Error At Station/Auxiliary Consumption/Losses	-0.02		
4	DHPC	Unit-I	30.08	220kV DHPC - Tsirang Fdr.	29.83	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR	0.00		
		Total	30.08	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	15.41	132kV KHP - Nangkhor Fdr- I	58.90	+	
		Unit-II	15.41	132kV KHP - Kilikhar Fdr- II	4.23	+	
		Unit- III	16.56	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.71	132kV Gelephu - Salakati Fdr.	20.67	+	
				132kV Motanga - Rangia Fdr.	38.57	+	
				220kV Tsirang - Jigmeling	36.80	+	
		Total	64.09	Error At Station/Auxiliary Consumption/Losses	0.66		

Note: Load summary on June 12, 2018 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	953.95	236.79	230.31	680.36	6.48
2	Eastern Grid	64.09	41.65	40.99	59.24	0.66
	Total	1,018.04	278.44	271.30	739.60	7.14

Note: Load Summary on June 12, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	216.94	235.17	286.43
2	Eastern Grid	31.28	49.58	67.48
	National	248.22	284.75	342.69

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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