

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 13, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	MW	Sign	Remarks
1	THP	Unit- I	147.39	400kV THP - Siliguri Fdr- I	143.42	+	Unit- II Standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	142.02	+	
		Unit- III	99.23	400kV THP - Siliguri Fdr- IV	140.38	+	
		Unit- IV	148.34	400kV THP - Malbase Fdr- III	213.39	+	
		Unit- V	99.76	400kV Malbase - Siliguri	119.45	+	
		Unit- VI	149.92				
		Total	644.64	Error At Station/Auxiliary Consumption/Losses	5.43		
2	CHP	Unit- I	74.63	220kV CHP - Birpara Fdr- I	72.02	+	
		Unit- II	75.58	220kV CHP - Birpara Fdr- II	71.89	+	
		Unit- III	76.46	220kV CHP - Malbase Fdr- III	126.48	+	
		Unit- IV	75.62	220kV CHP - Semtokha Fdr- IV	7.31	+	
				220kV Malbase - Birpara Fdr.	20.62	+	
				66kV CHP - Chumdo Fdr.	11.58	+	
				66kV CHP - Gedu Fdr.	9.74	+	
				3x3MVA, 66/11kV TFR	1.10	+	
		Total	302.29	Error At Station/Auxiliary Consumption/Losses	2.17		
3	BHP (U/S)	Unit- I	6.22	220kV BHP - Semtokha Fdr.	12.51	-	
		Unit- II	6.22	66kV BHP - Lobeysa Fdr.	11.81	+	
		Total	12.44	220kV BHP - Tsirang Fdr.	8.74	+	
	BHP (L/S)	Unit- I	10.47	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	11.42	30MVA ICT, 220/66kV			
		Total	21.89	Error At Station/Auxiliary Consumption/Losses	0.60		
4	DHPC	Unit-I	27.01	220kV DHPC - Tsirang Fdr.	54.81	+	
		Unit-II	28.22	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	55.23	Error At Station/Auxiliary Consumption/Losses	0.42		
5	KHP	Unit- I	16.15	132kV KHP - Nangkhor Fdr- I	55.52	+	
		Unit-II	16.27	132kV KHP - Kilikhar Fdr- II	8.39	+	
		Unit- III	16.13	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.08	132kV Gelephu - Salakati Fdr.	21.72	+	
				132kV Motanga - Rangia Fdr.	42.68	+	
				220kV Tsirang - Jigmeling	60.75	+	
		Total	64.63	Error At Station/Auxiliary Consumption/Losses	0.12		

Note: Load summary on June 13, 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	1,036.49	265.94	257.32	709.80	8.62
2	Eastern Grid	64.63	60.98	60.86	64.40	0.12
	Total	1,101.12	326.92	318.18	774.20	8.74

Note: Load Summary on June 13, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	244.07	255.33	272.24
2	Eastern Grid	52.87	52.87	60.94
	National	296.94	308.20	322.46

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 14, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	98.56	400kV THP - Siliguri Fdr- I	127.39	+	Unit-II Standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	124.76	+	
		Unit- III	99.75	400kV THP - Siliguri Fdr- IV	122.51	+	
		Unit- IV	100.66	400kV THP - Malbase Fdr- III	147.30	+	
		Unit- V	79.34	400kV Malbase - Siliguri	114.45	+	
		Unit- VI	149.92				
		Total	528.23	Error At Station/Auxiliary Consumption/Losses	6.27		
2	CHP	Unit- I	73.61	220kV CHP - Birpara Fdr- I	79.30	+	
		Unit- II	76.88	220kV CHP - Birpara Fdr- II	78.83	+	
		Unit- III	74.08	220kV CHP - Malbase Fdr- III	163.12	+	
		Unit- IV	76.65	220kV CHP - Semtokha Fdr- IV	-42.57	-	
				220kV Malbase - Birpara Fdr.	3.81	+	
				66kV CHP - Chumdo Fdr.	8.48	+	
				66kV CHP - Gedu Fdr.	11.59	+	
				3x3MVA, 66/11kV TFR	0.72	+	
		Total	301.22	Error At Station/Auxiliary Consumption/Losses	1.75		
3	BHP (U/S)	Unit- I	10.46	220kV BHP - Semtokha Fdr.	54.49	+	
		Unit- II	10.46	66kV BHP - Lobeysa Fdr.	14.62	+	
		Total	20.92	220kV BHP - Tsirang Fdr.	-16.96	-	
	BHP (L/S)	Unit- I	14.49	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	15.08	30MVA ICT, 220/66kV			
		Total	29.57	Error At Station/Auxiliary Consumption/Losses	-2.04		
4	DHPC	Unit-I	30.05	220kV DHPC - Tsirang Fdr.	59.80	+	
		Unit-II	30.21	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR	0.00		
		Total	60.26	Error At Station/Auxiliary Consumption/Losses	0.46		
5	KHP	Unit- I	15.97	132kV KHP - Nangkhor Fdr- I	58.22	+	
		Unit-II	16.05	132kV KHP - Kilikhar Fdr- II	4.38	+	
		Unit- III	15.45	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	15.83	132kV Gelephu - Salakati Fdr.	28.35	+	
				132kV Motanga - Rangia Fdr.	40.80	+	
				220kV Tsirang - Jigmeling	39.30	+	
		Total	63.30	Error At Station/Auxiliary Consumption/Losses	0.40		

Note: Load summary on June 14, 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	940.20	249.85	243.41	651.05	6.44
2	Eastern Grid	63.30	33.45	33.05	69.15	0.40
	Total	1,003.50	283.30	276.46	720.20	6.84

Note: Load Summary on June 14, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	224.72	250.25	272.24
2	Eastern Grid	30.44	44.96	60.94
	National	255.16	295.21	322.46

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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