

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 8, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	76.40		Unit-I, III & IV Standby.
		Unit- II	147.47	400kV THP - Siliguri Fdr- II	76.05	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	73.08	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	163.07	+	
		Unit- V	147.94	400kV Malbase - Siliguri	54.49	+	
		Unit- VI	99.88				
		Total	395.29	Error At Station/Auxiliary Consumption/Losses	6.69		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	37.20	+	Unit-I standby
		Unit- II	68.59	220kV CHP - Birpara Fdr- II	37.40	+	
		Unit- III	69.34	220kV CHP - Malbase Fdr- III	72.44	+	
		Unit- IV	71.28	220kV CHP - Semtokha Fdr- IV	43.00	+	
				220kV Malbase - Birpara Fdr.	4.09	+	
				66kV CHP - Chumdo Fdr.	12.71	+	
				66kV CHP - Gedu Fdr.	6.15	+	
				3x3MVA, 66/11kV TFR	1.11	+	
		Total	209.21	Error At Station/Auxiliary Consumption/Losses	-0.80		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-1.96	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	7.92	66kV BHP - Lobeysa Fdr.	10.34	+	
		Total	7.92	220kV BHP - Tsirang Fdr.	14.80	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	15.76	30MVA ICT, 220/66kV			
		Total	15.76	Error At Station/Auxiliary Consumption/Losses	-0.20		
4	DHPC	Unit-I	19.95	220kV DHPC - Tsirang Fdr.	19.75	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	19.95	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	14.55	132kV KHP - Nangkhor Fdr- I	48.08	+	
		Unit-II	14.30	132kV KHP - Kilikhar Fdr- II	8.09	+	
		Unit- III	14.66	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	14.30	132kV Gelephu - Salakati Fdr.	4.00	+	
				132kV Motanga - Rangia Fdr.	34.40	+	
				220kV Tsirang - Jigmeling	45.04	+	
		Total	57.81	Error At Station/Auxiliary Consumption/Losses	1.24		

Note: Load summary on June 08, 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	648.13	244.38	238.49	358.71	5.89
2	Eastern Grid	57.81	64.45	63.21	38.40	1.24
	Total	705.94	308.83	301.70	397.11	7.13

Note: Load Summary on June 08, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	232.97	252.56	286.43
2	Eastern Grid	39.79	46.23	67.48
	National	272.76	298.79	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 9, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	98.15	+	Unit-I, III & IV Standby.
		Unit- II	158.62	400kV THP - Siliguri Fdr- II	96.03	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	93.93	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	171.40	+	
		Unit- V	147.47	400kV Malbase - Siliguri	76.53	+	
		Unit- VI	159.38				
		Total	465.47	Error At Station/Auxiliary Consumption/Losses	5.96		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	46.49	+	Unit-I Standby.
		Unit- II	80.20	220kV CHP - Birpara Fdr- II	46.26	+	
		Unit- III	74.96	220kV CHP - Malbase Fdr- III	94.00	+	
		Unit- IV	77.73	220kV CHP - Semtokha Fdr- IV	26.17	+	
				220kV Malbase - Birpara Fdr.	4.28	+	
				66kV CHP - Chumdo Fdr.	8.64	+	
				66kV CHP - Gedu Fdr.	8.80	+	
				3x3MVA, 66/11kV TFR	0.68	+	
		Total	232.89	Error At Station/Auxiliary Consumption/Losses	1.85		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-18.78	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	6.61	66kV BHP - Lobeysa Fdr.	7.64	+	
		Total	6.61	220kV BHP - Tsirang Fdr.	17.86	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	13.31	30MVA ICT, 220/66kV	0.00		
		Total	13.31	Error At Station/Auxiliary Consumption/Losses	12.78		
4	DHPC	Unit-I	21.00	220kV DHPC - Tsirang Fdr.	20.70	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR	0.00		
		Total	21.00	Error At Station/Auxiliary Consumption/Losses	0.30		
5	KHP	Unit- I	15.48	132kV KHP - Nangkhor Fdr- I	56.84	+	
		Unit-II	15.57	132kV KHP - Kilikhar Fdr- II	4.35	+	
		Unit- III	15.61	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	15.45	132kV Gelephu - Salakati Fdr.	7.30	+	
				132kV Motanga - Rangia Fdr.	43.13	+	
				220kV Tsirang - Jigmeling	37.47	+	
		Total	62.11	Error At Station/Auxiliary Consumption/Losses	0.62		

Note: Load summary on June 09, 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	739.28	240.14	219.25	461.67	20.89
2	Eastern Grid	62.11	49.15	48.53	50.43	0.62
	Total	801.39	289.29	267.78	512.10	21.51

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	238.87	249.52	286.43
2	Eastern Grid	37.28	50.79	67.48
	National	276.15	300.31	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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