

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 17, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.11	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I under breakdown
		Unit- II	138.44	400kV THP - Siliguri Fdr- II	268.22	+	
		Unit- III	138.54	400kV THP - Siliguri Fdr- IV	255.21	+	
		Unit- IV	138.79	400kV THP - Malbase Fdr- III	303.52	+	
		Unit- V	139.02	400kV Malbase - Siliguri	240.40	+	
		Unit- VI	139.67				
		Total	831.57	Error At Station/Auxiliary Consumption/Losses	4.62		
2	CHP	Unit- I	91.58	220kV CHP - Birpara Fdr- I	105.55	+	
		Unit- II	90.85	220kV CHP - Birpara Fdr- II	105.29	+	
		Unit- III	90.87	220kV CHP - Malbase Fdr- III	166.46	+	
		Unit- IV	91.46	220kV CHP - Semtokha Fdr- IV	-39.16	-	
				220kV Malbase - Birpara Fdr.	45.29	+	
				66kV CHP - Chumdo Fdr.	12.58	+	
				66kV CHP - Gedu Fdr.	9.58	+	
				3x3MVA, 66/11kV TFR	1.34	+	
		Total	364.76	Error At Station/Auxiliary Consumption/Losses	3.12		
3	BHP (U/S)	Unit- I	9.35	220kV BHP - Semtokha Fdr.	58.89	+	
		Unit- II	9.35	66kV BHP - Lobeysa Fdr.	14.39	+	
		Total	18.70	220kV BHP - Tsirang Fdr.	-21.74	-	
	BHP (L/S)	Unit- I	15.95	5MVA, 66/11kV TFR	0.69	+	
		Unit- II	16.50	30MVA ICT, 220/66kV			
		Total	32.45	Error At Station/Auxiliary Consumption/Losses	-1.08		
4	DHPC	Unit-I	50.05	220kV DHPC - Tsirang Fdr.	104.74	+	
		Unit-II	55.24	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	105.29	Error At Station/Auxiliary Consumption/Losses	0.55		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	56.89	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	8.39	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.28	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	37.94	+	
				132kV Motanga - Rangia Fdr.	44.77	+	
				220kV Tsirang - Jigmeling	78.17	+	
		Total	66.00	Error At Station/Auxiliary Consumption/Losses	0.44		

Note: Load summary on June 17, 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	1,352.77	254.64	247.43	1,019.96	7.21
2	Eastern Grid	66.00	61.46	61.02	82.71	0.44
	Total	1,418.77	316.10	308.45	1,102.67	7.65

Note: Load Summary on June 17, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	250.00	254.19	286.43
2	Eastern Grid	51.16	51.26	67.48
	National	301.16	305.45	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 18, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	77.84	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II Standby. 400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	99.04	400kV THP - Siliguri Fdr- II	242.12	+	
		Unit- III	140.15	400kV THP - Siliguri Fdr- IV	231.92	+	
		Unit- IV	139.61	400kV THP - Malbase Fdr- III	256.71	+	
		Unit- V	138.75	400kV Malbase - Siliguri	220.19	+	
		Unit- VI	139.36				
		Total	734.75	Error At Station/Auxiliary Consumption/Losses		4.00	
2	CHP	Unit- I	91.63	220kV CHP - Birpara Fdr- I	96.05	+	
		Unit- II	90.97	220kV CHP - Birpara Fdr- II	96.01	+	
		Unit- III	91.83	220kV CHP - Malbase Fdr- III	174.27	+	
		Unit- IV	91.82	220kV CHP - Semtokha Fdr- IV	-23.64	-	
				220kV Malbase - Birpara Fdr.	22.89	+	
				66kV CHP - Chumdo Fdr.	8.20	+	
				66kV CHP - Gedu Fdr.	11.91	+	
				3x3MVA, 66/11kV TFR	0.78	+	
		Total	366.25	Error At Station/Auxiliary Consumption/Losses		2.67	
3	BHP (U/S)	Unit- I	7.22	220kV BHP - Semtokha Fdr.	38.19	+	
		Unit- II	7.22	66kV BHP - Lobeysa Fdr.	11.64	+	
		Total	14.44	220kV BHP - Tsirang Fdr.		-10.44	
	BHP (L/S)	Unit- I	12.28	5MVA, 66/11kV TFR	0.04	+	
		Unit- II	13.26	30MVA ICT, 220/66kV	0.00		
		Total	25.54	Error At Station/Auxiliary Consumption/Losses		0.55	
4	DHPC	Unit-I	30.04	220kV DHPC - Tsirang Fdr.	59.84	+	
		Unit-II	30.22	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	60.26	Error At Station/Auxiliary Consumption/Losses		0.42	
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	60.74	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	4.34	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.01	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	27.10	+	
				132kV Motanga - Rangia Fdr.	52.30	+	
				220kV Tsirang - Jigmeling	48.15	+	
		Total	66.00	Error At Station/Auxiliary Consumption/Losses		0.91	

Note: Load summary on June 18, 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	1,201.24	243.91	236.27	909.18	7.64
2	Eastern Grid	66.00	34.75	33.84	79.40	0.91
	Total	1,267.24	278.66	270.11	988.58	8.55

Note: Load Summary on June 18, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.35	248.40	286.43
2	Eastern Grid	37.09	53.45	67.48
	National	270.44	301.85	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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