

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 22, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	139.39	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I Unit -IV & VI Standby
		Unit- II	139.44	400kV THP - Siliguri Fdr- II	163.53	+	
		Unit- III	129.46	400kV THP - Siliguri Fdr- IV	155.49	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	222.49	+	
		Unit- V	139.13	400kV Malbase - Siliguri	139.67	+	
		Unit- VI	0.00				
		Total	547.42	Error At Station/Auxiliary Consumption/Losses		5.91	
2	CHP	Unit- I	66.43	220kV CHP - Birpara Fdr- I	55.84	+	
		Unit- II	64.44	220kV CHP - Birpara Fdr- II	55.85	+	
		Unit- III	65.51	220kV CHP - Malbase Fdr- III	111.89	+	
		Unit- IV	64.86	220kV CHP - Semtokha Fdr- IV	14.75	+	
				220kV Malbase - Birpara Fdr.	5.80	+	
				66kV CHP - Chumdo Fdr.	11.05	+	
				66kV CHP - Gedu Fdr.	8.37	+	
				3x3MVA, 66/11kV TFR	1.21	+	
		Total	261.24	Error At Station/Auxiliary Consumption/Losses		2.28	
3	BHP (U/S)	Unit- I	5.02	220kV BHP - Semtokha Fdr.	6.58	+	
		Unit- II	5.02	66kV BHP - Lobeysa Fdr.	11.03	+	
		Total	10.04	220kV BHP - Tsirang Fdr.		9.85	
	BHP (L/S)	Unit- I	8.53	5MVA, 66/11kV TFR	0.83	+	
		Unit- II	10.53	30MVA ICT, 220/66kV			
		Total	19.06	Error At Station/Auxiliary Consumption/Losses		0.81	
4	DHPC	Unit-I	28.56	220kV DHPC - Tsirang Fdr.	28.27	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	28.56	Error At Station/Auxiliary Consumption/Losses		0.29	
5	KHP	Unit- I	16.49	132kV KHP - Nangkhor Fdr- I	56.32	+	
		Unit-II	16.34	132kV KHP - Kilikhar Fdr- II	8.33	+	
		Unit- III	16.37	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.35	132kV Gelephu - Salakati Fdr.	10.18	+	
				132kV Motanga - Rangia Fdr.	43.54	+	
				220kV Tsirang - Jigmeling	36.39	+	
		Total	65.55	Error At Station/Auxiliary Consumption/Losses		0.40	

Note: Load summary on June 22, 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	866.32	253.75	244.46	576.18	9.29
2	Eastern Grid	65.55	48.22	47.82	53.72	0.40
	Total	931.87	301.97	292.28	629.90	9.69

Note: Load Summary on June 22, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	232.89	235.50	286.43
2	Eastern Grid	52.08	54.74	67.48
	National	284.97	290.24	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 23, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.28	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I Unit-IV & VI Standby
		Unit- II	78.25	400kV THP - Siliguri Fdr- II	110.31	+	
		Unit- III	79.31	400kV THP - Siliguri Fdr- IV	103.31	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	140.19	+	
		Unit- V	99.08	400kV Malbase - Siliguri	94.65	+	
		Unit- VI	0.00				
		Total	355.92	Error At Station/Auxiliary Consumption/Losses	2.11		
2	CHP	Unit- I	53.61	220kV CHP - Birpara Fdr- I	39.52	+	
		Unit- II	53.79	220kV CHP - Birpara Fdr- II	39.43	+	
		Unit- III	53.92	220kV CHP - Malbase Fdr- III	119.72	+	
		Unit- IV	53.80	220kV CHP - Semtokha Fdr- IV	-4.92	-	
				220kV Malbase - Birpara Fdr.	-26.27	-	
				66kV CHP - Chumdo Fdr.	9.30	+	
				66kV CHP - Gedu Fdr.	9.78	+	
				3x3MVA, 66/11kV TFR	0.85	+	
		Total	215.12	Error At Station/Auxiliary Consumption/Losses	1.44		
3	BHP (U/S)	Unit- I	4.58	220kV BHP - Semtokha Fdr.	22.45	+	
		Unit- II	4.58	66kV BHP - Lobeysa Fdr.	9.61	+	
		Total	9.16	220kV BHP - Tsirang Fdr.	-6.80	-	
	BHP (L/S)	Unit- I	8.58	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	8.95	30MVA ICT, 220/66kV			
		Total	17.53	Error At Station/Auxiliary Consumption/Losses	1.00		
4	DHPC	Unit-I	29.05	220kV DHPC - Tsirang Fdr.	28.79	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	29.05	Error At Station/Auxiliary Consumption/Losses	0.26		
5	KHP	Unit- I	16.53	132kV KHP - Nangkhor Fdr- I	59.85	+	
		Unit-II	16.46	132kV KHP - Kilikhar Fdr- II	5.02	+	
		Unit- III	16.53	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.42	132kV Gelephu - Salakati Fdr.	7.23	+	
				132kV Motanga - Rangia Fdr.	36.36	+	
				220kV Tsirang - Jigmeling	19.00	+	
		Total	65.94	Error At Station/Auxiliary Consumption/Losses	0.82		

Note: Load summary on June 23, 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	626.78	246.83	242.02	360.95	4.81
2	Eastern Grid	65.94	41.35	40.53	43.59	0.82
	Total	692.72	288.18	282.55	404.54	5.63

Note: Load Summary on June 23, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.30	237.83	286.43
2	Eastern Grid	53.20	57.90	67.48
	National	290.50	295.73	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:
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