

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 30, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	167.37	400kV THP - Siliguri Fdr- I	0.00	+	Feeder I under Breakdown Unit - II Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	255.30	+	
		Unit- III	168.68	400kV THP - Siliguri Fdr- IV	242.84	+	
		Unit- IV	169.83	400kV THP - Malbase Fdr- III	328.35	+	
		Unit- V	168.41	400kV Malbase - Siliguri	221.03	+	
		Unit- VI	158.23				
		Total	832.52	Error At Station/Auxiliary Consumption/Losses	6.03		
2	CHP	Unit- I	90.28	220kV CHP - Birpara Fdr- I	97.14	+	
		Unit- II	90.96	220kV CHP - Birpara Fdr- II	96.64	+	
		Unit- III	89.05	220kV CHP - Malbase Fdr- III	127.97	+	
		Unit- IV	90.50	220kV CHP - Semtokha Fdr- IV	16.03	+	
				220kV Malbase - Birpara Fdr.	61.44	+	
				66kV CHP - Chumdo Fdr.	10.99	+	
				66kV CHP - Gedu Fdr.	8.44	+	
				3x3MVA, 66/11kV TFR	1.22	+	
		Total	360.79	Error At Station/Auxiliary Consumption/Losses	2.36		
3	BHP (U/S)	Unit- I	7.91	220kV BHP - Semtokha Fdr.	4.05	+	
		Unit- II	7.91	66kV BHP - Lobeysa Fdr.	12.83	+	
		Total	15.82	220kV BHP - Tsirang Fdr.	26.49	+	
	BHP (L/S)	Unit- I	14.24	5MVA, 66/11kV TFR	0.81	+	
		Unit- II	15.18	30MVA ICT, 220/66kV			
		Total	29.42	Error At Station/Auxiliary Consumption/Losses	1.06		
4	DHPC	Unit-I	40.06	220kV DHPC - Tsirang Fdr.	39.77	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	40.06	Error At Station/Auxiliary Consumption/Losses	0.29		
5	KHP	Unit- I	16.52	132kV KHP - Nangkhor Fdr- I	56.90	+	
		Unit-II	16.44	132kV KHP - Kilikhar Fdr- II	8.34	+	
		Unit- III	16.55	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.55	132kV Gelephu - Salakati Fdr.	24.82	+	
				132kV Motanga - Rangia Fdr.	51.62	+	
				220kV Tsirang - Jigmeling	63.26	+	
		Total	66.06	Error At Station/Auxiliary Consumption/Losses	0.42		

Note: Load summary on June 30, 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	1,278.61	240.96	231.22	974.39	9.74
2	Eastern Grid	66.06	52.88	52.46	76.44	0.42
	Total	1,344.67	293.84	283.68	1,050.83	10.16

Note: Load Summary on June 30, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	220.52	227.42	272.24
2	Eastern Grid	45.02	45.02	60.94
	National	265.54	272.44	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: July 1, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	165.83	400kV THP - Siliguri Fdr- I	0.00	+	Feeder I under Breakdown Unit - II Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	249.44	+	
		Unit- III	139.00	400kV THP - Siliguri Fdr- IV	237.01	+	
		Unit- IV	168.15	400kV THP - Malbase Fdr- III	276.76	+	
		Unit- V	138.40	400kV Malbase - Siliguri	224.86	+	
		Unit- VI	159.11				
		Total	770.49	Error At Station/Auxiliary Consumption/Losses	7.28		
2	CHP	Unit- I	91.94	220kV CHP - Birpara Fdr- I	112.26	+	
		Unit- II	91.24	220kV CHP - Birpara Fdr- II	112.22	+	
		Unit- III	91.52	220kV CHP - Malbase Fdr- III	171.34	+	
		Unit- IV	91.33	220kV CHP - Semtokha Fdr- IV	-50.45	-	
				220kV Malbase - Birpara Fdr.	52.36	+	
				66kV CHP - Chumdo Fdr.	8.04	+	
				66kV CHP - Gedu Fdr.	10.81	+	
				3x3MVA, 66/11kV TFR	0.89	+	
		Total	366.03	Error At Station/Auxiliary Consumption/Losses	0.92		
3	BHP (U/S)	Unit- I	10.76	220kV BHP - Semtokha Fdr.	61.91	+	
		Unit- II	10.76	66kV BHP - Lobeysa Fdr.	14.27	+	
		Total	21.52	220kV BHP - Tsirang Fdr.	-17.27	-	
	BHP (L/S)	Unit- I	18.74	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	19.06	30MVA ICT, 220/66kV			
		Total	37.80	Error At Station/Auxiliary Consumption/Losses	-0.02		
4	DHPC	Unit-I	19.95	220kV DHPC - Tsirang Fdr.	55.91	+	
		Unit-II	36.22	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	56.17	Error At Station/Auxiliary Consumption/Losses	0.26		
5	KHP	Unit- I	14.15	132kV KHP - Nangkhor Fdr- I	61.09	+	
		Unit-II	17.01	132kV KHP - Kilikhar Fdr- II	4.22	+	
		Unit- III	16.26	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.47	132kV Gelephu - Salakati Fdr.	59.37	+	
				132kV Motanga - Rangia Fdr.	7.50	+	
				220kV Tsirang - Jigmeling	36.00	+	
		Total	63.89	Error At Station/Auxiliary Consumption/Losses	-1.82		

Note: Load summary on July 01, 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	1,252.01	227.86	219.42	988.15	8.44
2	Eastern Grid	63.89	33.02	34.84	66.87	-1.82
	Total	1,315.90	260.88	254.26	1,055.02	6.62

Note: Load Summary on July 01, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	216.04	230.24	258.12
2	Eastern Grid	48.60	51.89	59.84
	National	264.64	282.13	310.31

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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