

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: June 23, 2019
Hours: 19:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	117.70	400kV THP - Siliguri Fdr- I	123.06	+	Unit-II & IV Standby 400kV THP-SIL Fdr IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	122.48	+	
		Unit- III	100.37	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	185.87	+	
		Unit- V	70.00	400kV Malbase - Siliguri	101.35	+	
		Unit- VI	150.05				
		Total	438.12	Error At Station/Auxiliary Consumption/Losses	6.71		
2	CHP	Unit- I	75.76	220kV CHP - Birpara Fdr- I	48.63	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	48.47	+	
		Unit- III	79.28	220kV CHP - Malbase Fdr- III	87.68	+	
		Unit- IV	78.98	220kV CHP - Semtokha Fdr- IV	34.37	+	
				220kV Malbase - Birpara Fdr.	12.70	+	
				66kV CHP - Chumdo Fdr.	5.39	+	
				66kV CHP - Gedu Fdr.	6.62	+	
				3x3MVA, 66/11kV TFR	1.11	+	
		Total	234.02	Error At Station/Auxiliary Consumption/Losses	1.75		
3	BHP (U/S)	Unit- I	7.90	220kV BHP - Semtokha Fdr.	1.18	+	Upper Stage Unit II standby Lower Stage Unit I standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.20	+	
		Total	7.90	220kV BHP - Tsirang Fdr.	12.28	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.91	+	
		Unit- II	14.00	30MVA ICT, 220/66kV			
		Total	14.00	Error At Station/Auxiliary Consumption/Losses	-1.67		
4	DHPC	Unit-I	26.31	220kV DHPC - Tsirang Fdr.	26.08	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	26.31	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	15.77	132kV KHP - Nangkhor Fdr- I	57.33	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.09	132kV KHP - Kilikhar Fdr- II	6.79	+	
		Unit- III	16.51	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.43	132kV Gelephu - Salakati Fdr.	4.72	+	
				132kV Motanga - Rangia Fdr.	43.71	+	
				220kV Tsirang - Jigmeling	42.85	+	
		Total	64.80	Error At Station/Auxiliary Consumption/Losses	0.28		

Note: Load summary on June 23, 2019 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	720.35	220.81	213.79	456.69	7.02
2	Eastern Grid	64.80	59.22	58.94	48.43	0.28
	Total	785.15	280.03	272.73	505.12	7.30

Note: Load Summary on June 23, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	230.28	248.36	261.96
2	Eastern Grid	43.08	45.01	61.02
	National	273.36	293.37	322.98

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: June 24, 2019
Hours: 09:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	68.56	400kV THP - Siliguri Fdr- I	98.87	+	Unit-II,IV & V Standby 400kV THP-SIL Fdr IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	95.58	+	
		Unit- III	79.24	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	166.54	+	
		Unit- V	70.42	400kV Malbase - Siliguri	76.09	+	
		Unit- VI	150.24				
		Total	368.46	Error At Station/Auxiliary Consumption/Losses	7.47		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	31.77	+	Unit-I under maintenance & Unit-II on standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	31.91	+	
		Unit- III	83.55	220kV CHP - Malbase Fdr- III	77.74	+	
		Unit- IV	91.50	220kV CHP - Semtokha Fdr- IV	21.09	+	
				220kV Malbase - Birpara Fdr.	-7.17	-	
				66kV CHP - Chumdo Fdr.	3.54	+	
				66kV CHP - Gedu Fdr.	6.60	+	
				3x3MVA, 66/11kV TFR	0.93	+	
		Total	175.05	Error At Station/Auxiliary Consumption/Losses	1.47		
3	BHP (U/S)	Unit- I	7.66	220kV BHP - Semtokha Fdr.	1.06	+	Upper Stage Unit II standby Lower Stage Unit I standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.28	+	
		Total	7.66	220kV BHP - Tsirang Fdr.	11.52	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.45	+	
		Unit- II	14.74	30MVA ICT, 220/66kV			
		Total	14.74	Error At Station/Auxiliary Consumption/Losses	0.09		
4	DHPC	Unit-I	22.80	220kV DHPC - Tsirang Fdr.	22.60	+	Unit-II standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	22.80	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	15.90	132kV KHP - Nangkhor Fdr- I	61.02	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.26	132kV KHP - Kilikhar Fdr- II	3.74	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.58	132kV Gelephu - Salakati Fdr.	2.92	+	
				132kV Motanga - Rangia Fdr.	41.77	+	
				220kV Tsirang - Jigmeling	31.38	+	
		Total	65.33	Error At Station/Auxiliary Consumption/Losses	0.27		

Note: Load summary on June 24, 2019 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	588.71	230.28	221.05	327.05	9.23
2	Eastern Grid	65.33	52.02	51.75	44.69	0.27
	Total	654.04	282.30	272.80	371.74	9.50

Note: Load Summary on June 24, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	206.58	261.96	261.96
2	Eastern Grid	30.11	44.96	61.02
	National	236.69	306.92	322.98

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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