

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: June 25, 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	180.00	400kV THP - Siliguri Fdr- I	322.00	+	Unit-II & III Standby 400kV THP-SIL Fdr II & IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	180.00	400kV THP - Malbase Fdr- III	378.00	+	
		Unit- V	180.00	400kV Malbase - Siliguri	188.00	+	
		Unit- VI	160.00				
		Total	700.00	Error At Station/Auxiliary Consumption/Losses	0.00		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	73.50	+	Unit-I under maintenance
		Unit- II	83.56	220kV CHP - Birpara Fdr- II	73.00	+	
		Unit- III	76.00	220kV CHP - Malbase Fdr- III	70.00	+	
		Unit- IV	83.56	220kV CHP - Semtokha Fdr- IV	20.00	+	
				220kV Malbase - Birpara Fdr.	63.00	+	
				66kV CHP - Chumdo Fdr.	4.60	+	
				66kV CHP - Gedu Fdr.	5.20	+	
				3x3MVA, 66/11kV TFR	1.05	+	
		Total	243.12	Error At Station/Auxiliary Consumption/Losses	-4.23		
3	BHP (U/S)	Unit- I	9.80	220kV BHP - Semtokha Fdr.	12.40	+	Upper Stage Unit II standby Lower Stage Unit I standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.48	+	
		Total	9.80	220kV BHP - Tsirang Fdr.	3.34	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.86	+	
		Unit- II	18.20	30MVA ICT, 220/66kV			
		Total	18.20	Error At Station/Auxiliary Consumption/Losses	0.92		
4	DHPC	Unit-I	53.29	220kV DHPC - Tsirang Fdr.	53.04	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	53.29	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	16.36	132kV KHP - Nangkhor Fdr- I	57.00	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.58	132kV KHP - Kilikhar Fdr- II	8.72	+	
		Unit- III	16.78	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.56	132kV Gelephu - Salakati Fdr.	14.95	+	
				132kV Motanga - Rangia Fdr.	44.16	+	
				220kV Tsirang - Jigmeling	60.55	+	
		Total	66.28	Error At Station/Auxiliary Consumption/Losses	0.26		

Note: Load summary on June 25, 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	1,024.41	244.36	247.42	719.50	-3.06
2	Eastern Grid	66.28	67.72	67.46	59.11	0.26
	Total	1,090.69	312.08	314.88	778.61	-2.80

Note: Load Summary on June 25, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	234.05	237.96	261.96
2	Eastern Grid	39.12	42.54	61.02
	National	273.17	280.50	322.98

NOTES: Loads are collected from site

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)
27-Dec-18	18:18hrs	399.35MW

Date: June 26, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	100.00	400kV THP - Siliguri Fdr- I	198.00	+	Unit-IV Standby
		Unit- II	180.00	400kV THP - Siliguri Fdr- II	197.00	+	
		Unit- III	180.00	400kV THP - Siliguri Fdr- IV	190.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	241.00	+	
		Unit- V	180.00	400kV Malbase - Siliguri	174.00	+	
		Unit- VI	180.00				
		Total	820.00	Error At Station/Auxiliary Consumption/Losses	-6.00		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	65.70	+	Unit-I standby.
		Unit- II	79.00	220kV CHP - Birpara Fdr- II	65.60	+	
		Unit- III	78.00	220kV CHP - Malbase Fdr- III	108.40	+	
		Unit- IV	81.00	220kV CHP - Semtokha Fdr- IV	2.90	+	
				220kV Malbase - Birpara Fdr.	0.00		
				66kV CHP - Chumdo Fdr.	3.20	+	
				66kV CHP - Gedu Fdr.	6.10	+	
				3x3MVA, 66/11kV TFR	0.80	+	
		Total	238.00	Error At Station/Auxiliary Consumption/Losses	-14.70		
3	BHP (U/S)	Unit- I	9.30	220kV BHP - Semtokha Fdr.	23.71	+	Upper Stage Unit II standby Lower Stage Unit I standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.79	+	
		Total	9.30	220kV BHP - Tsirang Fdr.	-7.00	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.89	+	
		Total	17.80	Error At Station/Auxiliary Consumption/Losses	-1.29		
4	DHPC	Unit-I	48.35	220kV DHPC - Tsirang Fdr.	48.07	+	Unit-II standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	48.35	Error At Station/Auxiliary Consumption/Losses	0.28		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	61.60	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	4.36	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	19.04	+	
				132kV Motanga - Rangia Fdr.	44.40	+	
				220kV Tsirang - Jigmeling	40.01	+	
		Total	66.00	Error At Station/Auxiliary Consumption/Losses	-0.26		

Note: Load summary on June 26, 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	1,133.45	203.14	224.85	890.30	-21.71
2	Eastern Grid	66.00	42.57	42.83	63.44	-0.26
	Total	1,199.45	245.71	267.68	953.74	-21.97

Note: Load Summary on June 26, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	210.78	221.46	261.96
2	Eastern Grid	29.11	49.82	61.02
	National	239.89	271.28	322.98

NOTES: Western load collected from site.

- 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:
 - 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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