

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 29, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	1.12	400kV THP - Siliguri Fdr- I	0.00		Unit I at spinning mode, Unit-II Standby & 400kV THP-SIL I under maintenance
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	136.62	+	
		Unit- III	131.32	400kV THP - Siliguri Fdr- IV	136.00	+	
		Unit- IV	101.22	400kV THP - Malbase Fdr- III	208.12	+	
		Unit- V	100.57	400kV Malbase - Siliguri	111.76	+	
		Unit- VI	149.90				
		Total	484.13	Error At Station/Auxiliary Consumption/Losses	3.39		
2	CHP	Unit- I	59.40	220kV CHP - Birpara Fdr- I	63.66	+	220kV Malbase- Birpara Fdr under breakdown
		Unit- II	59.43	220kV CHP - Birpara Fdr- II	63.56	+	
		Unit- III	53.87	220kV CHP - Malbase Fdr- III	70.03	+	
		Unit- IV	69.77	220kV CHP - Semtokha Fdr- IV	30.68	+	
				220kV Malbase - Birpara Fdr.	0.00		
				66kV CHP - Chumdo Fdr.	5.64	+	
				66kV CHP - Gedu Fdr.	6.14	+	
		Total	242.47	Error At Station/Auxiliary Consumption/Losses	1.70		
3	BHP (U/S)	Unit- I	8.20	220kV BHP - Semtokha Fdr.	-0.05	-	US Unit-II & LS Unit I in standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.00	+	
		Total	8.20	220kV BHP - Tsirang Fdr.	15.98	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	17.70	30MVA ICT, 220/66kV			
		Total	17.70	Error At Station/Auxiliary Consumption/Losses	-0.95		
4	DHPC	Unit-I	31.31	220kV DHPC - Tsirang Fdr.	31.12	+	Unit-II standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	31.31	Error At Station/Auxiliary Consumption/Losses	0.19		
5	KHP	Unit- I	16.51	132kV KHP - Nangkhor Fdr- I	54.00	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.61	132kV KHP - Kilikhar Fdr- II	9.50	+	
		Unit- III	16.45	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.48	132kV Gelephu - Salakati Fdr.	16.65	+	
				132kV Motanga - Rangia Fdr.	47.02	+	
				220kV Tsirang - Jigmeling	31.12	+	
		Total	66.05	Error At Station/Auxiliary Consumption/Losses	1.95		

Note: Load summary on June 29, 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	783.81	241.09	236.76	511.60	4.33
2	Eastern Grid	66.05	33.50	31.55	63.67	1.95
	Total	849.86	274.59	268.31	575.27	6.28

Note: Load Summary on June 29, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	230.28	230.28	261.96
2	Eastern Grid	44.54	47.83	61.02
	National	274.82	278.11	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.
 - 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 30, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.96	400kV THP - Siliguri Fdr- I	0.00		Unit I spinning mode, Unit-II Standby & 400kV THP-SIL I under maintenance
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	141.12	+	
		Unit- III	130.42	400kV THP - Siliguri Fdr- IV	135.08	+	
		Unit- IV	101.07	400kV THP - Malbase Fdr- III	198.98	+	
		Unit- V	100.26	400kV Malbase - Siliguri	117.92	+	
		Unit- VI	150.44				
		Total	483.15	Error At Station/Auxiliary Consumption/Losses	7.97		
2	CHP	Unit- I	57.57	220kV CHP - Birpara Fdr- I	50.92	+	220kV Malbase- Birpara Fdr under breakdown
		Unit- II	49.66	220kV CHP - Birpara Fdr- II	50.88	+	
		Unit- III	53.13	220kV CHP - Malbase Fdr- III	99.17	+	
		Unit- IV	61.11	220kV CHP - Semtokha Fdr- IV	7.64	+	
				220kV Malbase - Birpara Fdr.	0.00		
				66kV CHP - Chumdo Fdr.	2.87	+	
				66kV CHP - Gedu Fdr.	6.87	+	
				3x3MVA, 66/11kV TFR	0.90	+	
		Total	221.47	Error At Station/Auxiliary Consumption/Losses	2.22		
3	BHP (U/S)	Unit- I	9.00	220kV BHP - Semtokha Fdr.	13.63	+	US Unit-II standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.61	+	
		Total	9.00	220kV BHP - Tsirang Fdr.	3.05	+	
	BHP (L/S)	Unit- I	8.47	5MVA, 66/11kV TFR	0.55	+	
		Unit- II	8.75	30MVA ICT, 220/66kV			
		Total	17.22	Error At Station/Auxiliary Consumption/Losses	-0.62		
4	DHPC	Unit-I	30.33	220kV DHPC - Tsirang Fdr.	30.11	+	Unit-II standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	30.33	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	16.46	132kV KHP - Nangkhor Fdr- I	62.00	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.61	132kV KHP - Kilikhar Fdr- II	2.95	+	
		Unit- III	16.46	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	17.60	+	
				132kV Motanga - Rangia Fdr.	44.51	+	
				220kV Tsirang - Jigmeling	31.98	+	
		Total	66.05	Error At Station/Auxiliary Consumption/Losses	0.70		

Note: Load summary on June 30, 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	761.17	233.27	223.48	495.92	9.79
2	Eastern Grid	66.05	35.92	35.22	62.11	0.70
	Total	827.22	269.19	258.70	558.03	10.49

Note: Load Summary on June 30, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	214.10	225.20	261.96
2	Eastern Grid	35.00	44.78	61.02
	National	249.10	269.98	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:
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