

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: 19:00 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	101.42		Unit-II & V Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	100.34	+	
		Unit- III	130.55	400kV THP - Siliguri Fdr- IV	97.81	+	
		Unit- IV	101.23	400kV THP - Malbase Fdr- III	173.02	+	
		Unit- V	0.00	400kV Malbase - Siliguri	79.67	+	
		Unit- VI	150.60				
		Total	481.66	Error At Station/Auxiliary Consumption/Losses	9.07		
2	CHP	Unit- I	48.15	220kV CHP - Birpara Fdr- I	47.49	+	220kV Malbase- Birpara Fdr under breakdown
		Unit- II	50.17	220kV CHP - Birpara Fdr- II	47.27	+	
		Unit- III	64.04	220kV CHP - Malbase Fdr- III	92.08	+	
		Unit- IV	64.78	220kV CHP - Semtokha Fdr- IV	26.08	+	
				220kV Malbase - Birpara Fdr.	6.39		
				66kV CHP - Chumdo Fdr.	4.80	+	
				66kV CHP - Gedu Fdr.	6.51	+	
				3x3MVA, 66/11kV TFR	1.06	+	
		Total	227.14	Error At Station/Auxiliary Consumption/Losses	1.85		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.88	-	US Unit-II & LS Unit I in standby
		Unit- II	9.00	66kV BHP - Lobeysa Fdr.	10.02	+	
		Total	9.00	220kV BHP - Tsirang Fdr.	12.09	+	
	BHP (L/S)	Unit- I	15.47	5MVA, 66/11kV TFR	0.57	+	
		Unit- II		30MVA ICT, 220/66kV			
		Total	15.47	Error At Station/Auxiliary Consumption/Losses	0.91		
4	DHPC	Unit-I	28.32	220kV DHPC - Tsirang Fdr.	28.10	+	Unit-II standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	28.32	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	16.37	132kV KHP - Nangkhor Fdr- I	58.20	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.52	132kV KHP - Kilikhar Fdr- II	6.90	+	
		Unit- III	16.35	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.32	132kV Gelephu - Salakati Fdr.	12.81	+	
				132kV Motanga - Rangia Fdr.	44.40	+	
				220kV Tsirang - Jigmeling	38.50	+	
		Total	65.56	Error At Station/Auxiliary Consumption/Losses	-0.14		

Note: Load summary on June 30, 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	761.59	242.70	230.65	480.39	12.05
2	Eastern Grid	65.56	46.85	46.99	57.21	-0.14
	Total	827.15	289.55	277.64	537.60	11.91

Note: Load Summary on June 30, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	222.15	225.30	261.96
2	Eastern Grid	44.78	44.78	61.02
	National	266.93	270.08	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.