

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	January 2, 2020
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	1020MW THP	Unit- I	89.74	400kV THP - Siliguri Fdr- I	25.13	+	Unit- III & IV at standby. Unit- II & VI under shutdown. 400kV THP_SILL-IV under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	24.03	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	106.54	+	
		Unit- V	70.45	400kV Malbase - Siliguri	5.34	+	
		Unit- VI	0.00	-	-	-	
		Total	160.19	Error at Station/Auxiliary Consumption/Losses	4.49		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & IV under maintenance. Unit-I standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG IV standby.
		Unit-II	111.31	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	105.13	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	111.31	Error at Station/Auxiliary Consumption/Losses	6.18		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit-I & II under shutdownn. 220kV CHP-BIR I standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-15.73	-	
		Unit- III	39.84	220kV CHP - Malbase Fdr- III	28.88	+	
		Unit- IV	38.10	220kV CHP - Sementokha Fdr- IV	43.44	+	
		-	-	220kV Malbase - Birpara Fdr.	-46.73	-	
		-	-	66kV CHP - Chumdo Fdr.	14.00	+	
		-	-	66kV CHP - Gedu Fdr.	2.97	+	
		Total	77.94	Error at Station/Auxiliary Consumption/Losses	2.93		
4	24MW BHP (U/S)	Unit- I	7.10	220kV BHP - Sementokha Fdr.	11.12	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.25	+	
		Total	7.10	220kV BHP - Tsirang Fdr.	-6.53	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	14.03	30MVA ICT, 220/66kV			
Total	14.03	Error at Station/Auxiliary Consumption/Losses	0.39				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.65	+	Unit-I at Standby
		Unit-II	21.87	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	21.87	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	5.54	+	Unit-IV under shutdown. Unit-I & Unit-III Standby.
		Unit-II	15.83	132kV KHP - Kilikhar Fdr- II	9.09	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-13.00	-	
		-	-	132kV Motanga - Rangia Fdr.	-6.79	-	
		-	-	220kV Tsirang - Jigmeling	12.60	+	
		Total	15.83	Error at Station/Auxiliary Consumption/Losses	0.80		

Note: Load summary on January 02, 2020 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	281.13	276.49	268.46	-7.96	8.03
2	Eastern Grid	127.14	54.40	47.42	85.34	6.98
	Total	408.27	330.89	315.88	77.38	15.01

Note: Load Summary on January 02, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid			N.A
2	Eastern Grid			N.A
	National	0.00	0.00	#VALUE!

NOTES:Eastern Data 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.
 - The clocks of all the locations are not synchronized.
- This report is generated to give an idea of the generation & load flow for the system at a particular instant.