

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 24, 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	1020MW THP	Unit- I	77.74	400kV THP - Siliguri Fdr- I	0.00		Unit-III standby. Unit-IV & V under shutdown. 400kV THP_SILI I under shutdown.
		Unit- II	138.98	400kV THP - Siliguri Fdr- II	101.16	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	96.17	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	153.69	+	
		Unit- V	0.00	400kV Malbase - Siliguri	81.92	+	
		Unit- VI	141.21	-	-	-	
		Total	357.93	Error at Station/Auxiliary Consumption/Losses	6.91		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	74.90	+	Unit-I,II & IV under breakdown.
		Unit-II	156.00	400kV MHP - Jigmeling Fdr - II	74.90	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	156.00	Error at Station/Auxiliary Consumption/Losses	6.20		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	20.31	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	20.29	+	
		Unit- III	85.13	220kV CHP - Malbase Fdr- III	82.24	+	
		Unit- IV	85.10	220kV CHP - Sementokha Fdr- IV	28.17	+	
		-	-	220kV Malbase - Birpara Fdr.	-28.58	-	
		-	-	66kV CHP - Chumdo Fdr.	13.05	+	
		-	-	66kV CHP - Gedu Fdr.	4.81	+	
		-	-	3x3MVA, 66/11kV TFR	1.63	+	
		Total	170.23	Error at Station/Auxiliary Consumption/Losses	-0.27		
3	24MW BHP (U/S)	Unit- I	5.33	220kV BHP - Sementokha Fdr.	23.72	+	
		Unit- II	5.33	66kV BHP - Lobeysa Fdr.	15.75	+	
		Total	10.66	220kV BHP - Tsirang Fdr.	-7.65	-	
	40MW BHP (L/S)	Unit- I	11.09	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	10.66	30MVA ICT, 220/66kV			
Total	21.75	Error at Station/Auxiliary Consumption/Losses	0.13				
4	126MW DHPC	Unit-I	33.24	220kV DHPC - Tsirang Fdr.	33.01	+	Unit II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	33.24	Error at Station/Auxiliary Consumption/Losses	0.23		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	24.74	+	Unit-II under shutdown Unit-I Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.94	+	
		Unit- III	16.10	5MVA, 132/11kV TFR	0.35		
		Unit- IV	16.11	132kV Gelephu - Salakati Fdr.	-11.80	-	
		-	-	132kV Motanga - Rangia Fdr.	14.16	+	
		-	-	220kV Tsirang - Jigmeling	23.88	+	
		Total	32.21	Error at Station/Auxiliary Consumption/Losses	0.18		

Note: Load summary on November 24, 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	593.81	278.66	271.92	291.27	6.74
2	Eastern Grid	188.21	59.93	53.55	152.16	6.38
	Total	782.02	338.59	325.47	443.43	13.12

Note: Load Summary on November 24, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	273.58	273.58	281.60
2	Eastern Grid	50.12	50.51	62.24
	National	323.70	324.09	343.84

NOTES:

- 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.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 25, 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	1020MW THP	Unit- I	137.83	400kV THP - Siliguri Fdr- I	0.00		Unit-III at standby. Unit-II, IV & V under shutdown. 400kV THP_SILI-I at standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	88.09	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	83.79	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	130.17	+	
		Unit- V	0.00	400kV Malbase - Siliguri	73.34	+	
		Unit- VI	170.01	-	-	-	
		Total	307.84	Error at Station/Auxiliary Consumption/Losses	5.79		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	84.40	+	Unit-I & III under breakdown
		Unit-II	91.40	400kV MHP - Jigmeling Fdr - II	86.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	82.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		Total	173.40	Error at Station/Auxiliary Consumption/Losses	3.00		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	18.68	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	18.66	+	
		Unit- III	66.69	220kV CHP - Malbase Fdr- III	79.33	+	
		Unit- IV	68.62	220kV CHP - Sementokha Fdr- IV	3.36	+	
		-	-	220kV Malbase - Birpara Fdr.	-30.56	-	
		-	-	66kV CHP - Chumdo Fdr.	8.60	+	
		-	-	66kV CHP - Gedu Fdr.	5.45	+	
		-	-	3x3MVA, 66/11kV TFR	1.07	+	
		Total	135.31	Error at Station/Auxiliary Consumption/Losses	0.16		
4	24MW BHP (U/S)	Unit- I	5.24	220kV BHP - Sementokha Fdr.	36.39	+	
		Unit- II	5.24	66kV BHP - Lobeysa Fdr.	13.05	+	
		Total	10.48	220kV BHP - Tsirang Fdr.	-17.77	-	
	40MW BHP (L/S)	Unit- I	10.81	5MVA, 66/11kV TFR	0.45	+	
		Unit- II	10.39	30MVA ICT, 220/66kV			
Total	21.20	Error at Station/Auxiliary Consumption/Losses	-0.44				
5	126MW DHPC	Unit-I	32.74	220kV DHPC - Tsirang Fdr.	32.72	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	32.74	Error at Station/Auxiliary Consumption/Losses	0.02		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhoh Fdr- I	27.10	+	Unit-II under shutdown. Unit-I Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.60	+	
		Unit- III	16.01	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.01	132kV Gelephu - Salakati Fdr.	-5.60	-	
		-	-	132kV Motanga - Rangia Fdr.	0.12	+	
		-	-	220kV Tsirang - Jigmeling	12.30	+	
		Total	32.02	Error at Station/Auxiliary Consumption/Losses	0.02		

Note: Load summary on November 25, 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	507.57	243.27	237.74	252.00	5.53
2	Eastern Grid	205.42	52.80	49.78	164.92	3.02
	Total	712.99	296.07	287.52	416.92	8.55

Note: Load Summary on November 25, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	248.22	291.16	293.93
2	Eastern Grid	31.06	50.62	62.30
	National	279.28	341.78	356.23

NOTES:

- 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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