

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 26, 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	167.65	400kV THP - Siliguri Fdr- I	89.98		Unit-III at standby. Unit- IV, V & VI under shutdown. 400kV THP_SILL-IV at standby.
		Unit- II	165.66	400kV THP - Siliguri Fdr- II	88.69	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	149.13	+	
		Unit- V	0.00	400kV Malbase - Siliguri	70.21	+	
		Unit- VI	0.00	-	-	-	
		Total	333.31	Error at Station/Auxiliary Consumption/Losses	5.51		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	83.00	+	Unit-I,III & IV under maintenance.
		Unit-II	166.00	400kV MHP - Jigmeling Fdr - II	82.00	+	
		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	166.00	Error at Station/Auxiliary Consumption/Losses	1.00		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	18.53	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	18.53	+	
		Unit- III	83.71	220kV CHP - Malbase Fdr- III	78.78	+	
		Unit- IV	84.65	220kV CHP - Sementokha Fdr- IV	30.68	+	
		-	-	220kV Malbase - Birpara Fdr.	-29.47	-	
		-	-	66kV CHP - Chumdo Fdr.	13.22	+	
		-	-	66kV CHP - Gedu Fdr.	5.92	+	
		-	-	3x3MVA, 66/11kV TFR	1.65	+	
		Total	168.36	Error at Station/Auxiliary Consumption/Losses	1.05		
3	24MW BHP (U/S)	Unit- I	5.10	220kV BHP - Sementokha Fdr.	23.27	+	
		Unit- II	5.10	66kV BHP - Lobeysa Fdr.	15.43	+	
		Total	10.20	220kV BHP - Tsirang Fdr.	-8.49	-	
	40MW BHP (L/S)	Unit- I	10.60	5MVA, 66/11kV TFR	0.78	+	
		Unit- II	10.14	30MVA ICT, 220/66kV			
Total	20.74	Error at Station/Auxiliary Consumption/Losses	0.05				
4	126MW DHPC	Unit-I	32.29	220kV DHPC - Tsirang Fdr.	32.05	+	Unit II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	32.29	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhon Fdr- I	23.51	+	Unit-II under shutdown Unit-I Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.11	+	
		Unit- III	16.20	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.14	132kV Gelephu - Salakati Fdr.	-11.57	-	
		-	-	132kV Motanga - Rangia Fdr.	3.22	+	
		-	-	220kV Tsirang - Jigmeling	20.90	+	
		Total	31.34	Error at Station/Auxiliary Consumption/Losses	0.32		

Note: Load summary on November 26, 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	564.90	287.53	280.78	256.47	6.75
2	Eastern Grid	197.34	61.59	60.27	156.65	1.32
	Total	762.24	349.12	341.05	413.12	8.07

Note: Load Summary on November 26, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	287.12	287.12	281.60
2	Eastern Grid	49.24	52.03	62.24
	National	336.36	339.15	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 27, 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	170.00	400kV THP - Siliguri Fdr- I	75.00		Unit-VI at standby. Unit-III, IV & V under shutdown. 400kV THP_SILL-IV under shutdown..
		Unit- II	120.00	400kV THP - Siliguri Fdr- II	74.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	132.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	55.00	+	
		Unit- VI	0.00	-	-	-	
		Total	290.00	Error at Station/Auxiliary Consumption/Losses	9.00		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	84.40	+	Unit-I at standby Unit-III & IV under breakdown
		Unit-II	166.16	400kV MHP - Jigmeling Fdr - II	80.70	+	
		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)			
		Total	166.16	Error at Station/Auxiliary Consumption/Losses	1.06		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	13.10	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	13.00	+	
		Unit- III	64.00	220kV CHP - Malbase Fdr- III	78.40	+	
		Unit- IV	64.00	220kV CHP - Sementokha Fdr- IV	4.70	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.14	-	
		-	-	66kV CHP - Chumdo Fdr.	8.40	+	
		-	-	66kV CHP - Gedu Fdr.	6.00	+	
		-	-	3x3MVA, 66/11kV TFR	1.20	+	
Total	128.00	Error at Station/Auxiliary Consumption/Losses	3.20				
4	24MW BHP (U/S)	Unit- I	5.20	220kV BHP - Sementokha Fdr.	37.74	+	
		Unit- II	5.20	66kV BHP - Lobeysa Fdr.	14.96	+	
		Total	10.40	220kV BHP - Tsirang Fdr.	-19.37	-	
	40MW BHP (L/S)	Unit- I	11.50	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	11.00	30MVA ICT, 220/66kV			
Total	22.50	Error at Station/Auxiliary Consumption/Losses	-1.42				
5	126MW DHPC	Unit-I	31.00	220kV DHPC - Tsirang Fdr.	30.76	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	31.00	Error at Station/Auxiliary Consumption/Losses	0.24		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhoh Fdr- I	26.70	+	Unit-II under shutdown. Unit-I Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.07	+	
		Unit- III	16.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.00	132kV Gelephu - Salakati Fdr.	-11.06	-	
		-	-	132kV Motanga - Rangia Fdr.	-4.28	-	
		-	-	220kV Tsirang - Jigmeling	12.07	+	
		Total	32.00	Error at Station/Auxiliary Consumption/Losses	0.93		

Note: Load summary on November 27, 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	481.90	277.87	266.85	191.96	11.02
2	Eastern Grid	198.16	60.47	58.48	149.76	1.99
	Total	680.06	338.34	325.33	341.72	13.01

Note: Load Summary on November 27, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	270.57	274.45	293.93
2	Eastern Grid	41.15	48.83	62.30
	National	311.72	323.28	356.23

NOTES: Generation and 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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