

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 22, 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	0.00	400kV THP - Siliguri Fdr- I	94.25	+	Unit-IV & V under shutdown. Unit-I & III standby. 400kV THP_SILI II under Maintenance.
		Unit- II	167.68	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	89.96	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	147.45	+	
		Unit- V	0.00	400kV Malbase - Siliguri	75.42	+	
		Unit- VI	169.99	-	-	-	
		Total	337.67	Error at Station/Auxiliary Consumption/Losses	6.01		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	82.00	+	Unit-I & IV under Maintenance. Unit-II at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	82.00	+	
		Unit-III	166.30	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	166.30	Error at Station/Auxiliary Consumption/Losses	2.30		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	20.23	+	Unit-I & II under shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	20.31	+	
		Unit- III	83.42	220kV CHP - Malbase Fdr- III	76.84	+	
		Unit- IV	84.84	220kV CHP - Sementokha Fdr- IV	30.07	+	
		-	-	220kV Malbase - Birpara Fdr.	-25.48	-	
		-	-	66kV CHP - Chumdo Fdr.	13.31	+	
		-	-	66kV CHP - Gedu Fdr.	5.14	+	
		-	-	3x3MVA, 66/11kV TFR	1.61	+	
		Total	168.26	Error at Station/Auxiliary Consumption/Losses	0.75		
3	24MW BHP (U/S)	Unit- I	5.34	220kV BHP - Sementokha Fdr.	23.17	+	
		Unit- II	5.34	66kV BHP - Lobeysa Fdr.	16.02	+	
		Total	10.68	220kV BHP - Tsirang Fdr.	-7.32	-	
	40MW BHP (L/S)	Unit- I	11.12	5MVA, 66/11kV TFR	0.82	+	
		Unit- II	10.64	30MVA ICT, 220/66kV			
Total	21.76	Error at Station/Auxiliary Consumption/Losses	0.25				
4	126MW DHPC	Unit-I	34.38	220kV DHPC - Tsirang Fdr.	34.17	+	Unit II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	34.38	Error at Station/Auxiliary Consumption/Losses	0.21		
5	60MW KHP	Unit- I	12.00	132kV KHP - Nangkhor Fdr- I	25.69	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.00	+	
		Unit- III	12.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	10.00	132kV Gelephu - Salakati Fdr.	11.44	+	
		-	-	132kV Motanga - Rangia Fdr.	0.00	+	
		-	-	220kV Tsirang - Jigmeling	24.35	+	
		Total	34.00	Error at Station/Auxiliary Consumption/Losses	0.91		

Note: Load summary on November 22, 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	572.75	273.71	266.99	274.69	6.72
2	Eastern Grid	200.30	49.21	46.00	175.44	3.21
	Total	773.05	322.92	312.99	450.13	9.93

Note: Load Summary on November 22, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	270.66	270.66	281.60
2	Eastern Grid	50.49	53.57	62.24
	National	321.15	324.23	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 23, 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	79.97	400kV THP - Siliguri Fdr- I	0.00	+	Unit-III at standby. Unit-IV & V under shutdown. 400kV THP_SILL-I under Maintenance.
		Unit- II	79.98	400kV THP - Siliguri Fdr- II	71.73		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	68.56	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	112.42	+	
		Unit- V	0.00	400kV Malbase - Siliguri	60.15	+	
		Unit- VI	100.24	-	-	-	
		Total	260.19	Error at Station/Auxiliary Consumption/Losses	7.48		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	88.60	+	Unit-I under emergency shutdown.Unit-II & IV under Maintenance.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	87.00	+	
		Unit-III	177.70	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	177.70	Error at Station/Auxiliary Consumption/Losses	2.10		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	20.01	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	20.00	+	
		Unit- III	69.33	220kV CHP - Malbase Fdr- III	80.40	+	
		Unit- IV	67.49	220kV CHP - Sementokha Fdr- IV	1.70	+	
		-	-	220kV Malbase - Birpara Fdr.	-28.91	-	
		-	-	66kV CHP - Chumdo Fdr.	8.57	+	
		-	-	66kV CHP - Gedu Fdr.	4.66	+	
		-	-	3x3MVA, 66/11kV TFR	1.05	+	
Total	136.82	Error at Station/Auxiliary Consumption/Losses	0.43				
4	24MW BHP (U/S)	Unit- I	5.32	220kV BHP - Sementokha Fdr.	37.55	+	
		Unit- II	5.32	66kV BHP - Lobeysa Fdr.	13.38	+	
		Total	10.64	220kV BHP - Tsirang Fdr.	-18.87	-	
	40MW BHP (L/S)	Unit- I	11.12	5MVA, 66/11kV TFR	0.59	+	
		Unit- II	10.64	30MVA ICT, 220/66kV			
Total	21.76	Error at Station/Auxiliary Consumption/Losses	-0.25				
5	126MW DHPC	Unit-I	33.34	220kV DHPC - Tsirang Fdr.	33.15	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	33.34	Error at Station/Auxiliary Consumption/Losses	0.19		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	25.35	+	Unit-I under standby.Unit-II under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.57	+	
		Unit- III	16.17	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.23	132kV Gelephu - Salakati Fdr.	-8.75	+	
		-	-	132kV Motanga - Rangia Fdr.	2.17	+	
		-	-	220kV Tsirang - Jigmeling	12.63	+	
		Total	32.40	Error at Station/Auxiliary Consumption/Losses	2.18		

Note: Load summary on November 23, 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	462.75	238.58	230.73	211.54	7.85
2	Eastern Grid	210.10	53.71	49.43	169.02	4.28
	Total	672.85	292.29	280.16	380.56	12.13

Note: Load Summary on November 23, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	249.43	273.58	293.93
2	Eastern Grid	39.76	50.51	62.30
	National	289.19	324.09	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:
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