

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 10, 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	144.69	400kV THP - Siliguri Fdr- I	119.30	+	Unit-V under shutdown. Unit-II & III at standby. 400kV THP_SILI II under Maintenance.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	115.54	+	
		Unit- IV	91.04	400kV THP - Malbase Fdr- III	154.09	+	
		Unit- V	0.00	400kV Malbase - Siliguri	103.18	+	
		Unit- VI	159.21	-	-	-	
		Total	394.94	Error at Station/Auxiliary Consumption/Losses	6.01		
2	720MW MHP	Unit-I	75.40	400kV MHP - Jigmeling Fdr - I	101.80	+	Unit II & Unit III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	102.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	132.80	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	208.20	Error at Station/Auxiliary Consumption/Losses	3.90		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	30.14	+	Unit-I under shutdown
		Unit- II	65.11	220kV CHP - Birpara Fdr- II	30.07	+	
		Unit- III	64.80	220kV CHP - Malbase Fdr- III	101.90	+	
		Unit- IV	64.18	220kV CHP - Sementokha Fdr- IV	12.64	+	
		-	-	220kV Malbase - Birpara Fdr.	-28.07	-	
		-	-	66kV CHP - Chumdo Fdr.	11.44	+	
		-	-	66kV CHP - Gedu Fdr.	5.72	+	
		-	-	3x3MVA, 66/11kV TFR	1.59	+	
		Total	194.09	Error at Station/Auxiliary Consumption/Losses	0.59		
3	24MW BHP (U/S)	Unit- I	6.47	220kV BHP - Sementokha Fdr.	35.51	+	
		Unit- II	6.47	66kV BHP - Lobeysa Fdr.	15.90	+	
		Total	12.94	220kV BHP - Tsirang Fdr.	-13.13	-	
	40MW BHP (L/S)	Unit- I	13.28	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	12.73	30MVA ICT, 220/66kV			
Total	26.01	Error at Station/Auxiliary Consumption/Losses	0.00				
4	126MW DHPC	Unit-I	38.94	220kV DHPC - Tsirang Fdr.	38.71	+	Unit II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	38.94	Error at Station/Auxiliary Consumption/Losses	0.23		
5	60MW KHP	Unit- I	12.54	132kV KHP - Nangkhor Fdr- I	29.26	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.07	+	
		Unit- III	12.31	5MVA, 132/11kV TFR	0.40		
		Unit- IV	11.96	132kV Gelephu - Salakati Fdr.	-8.12	-	
		-	-	132kV Motanga - Rangia Fdr.	1.90	+	
		-	-	220kV Tsirang - Jigmeling	23.28	+	
		Total	36.81	Error at Station/Auxiliary Consumption/Losses	0.08		

Note: Load summary on November 10, 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	666.92	273.48	266.65	370.16	6.83
2	Eastern Grid	245.01	70.21	66.23	198.08	3.98
	Total	911.93	343.69	332.88	568.24	10.81

Note: Load Summary on November 10, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	270.24	278.12	281.60
2	Eastern Grid	52.58	54.86	62.24
	National	322.82	332.98	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 11, 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	156.31	400kV THP - Siliguri Fdr- I	96.49	+	Unit-V under shutdown. Unit-II & III at standby. 400kV THP_SILLI-II under Maintenance.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	91.25	+	
		Unit- IV	90.95	400kV THP - Malbase Fdr- III	134.29	+	
		Unit- V	0.00	400kV Malbase - Siliguri	81.58	+	
		Unit- VI	80.71	-	-	-	
		Total	327.97	Error at Station/Auxiliary Consumption/Losses	5.94		
2	720MW MHP	Unit-I	75.30	400kV MHP - Jigmeling Fdr - I	104.00	+	Unit II & Unit III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	104.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	138.67	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		Total	213.97	Error at Station/Auxiliary Consumption/Losses	5.97		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	23.96	+	CHP Unit-I under shutdownn.
		Unit- II	53.43	220kV CHP - Birpara Fdr- II	24.13	+	
		Unit- III	49.26	220kV CHP - Malbase Fdr- III	101.92	+	
		Unit- IV	55.53	220kV CHP - Sementokha Fdr- IV	-6.15	-	
		-	-	220kV Malbase - Birpara Fdr.	-38.06	-	
		-	-	66kV CHP - Chumdo Fdr.	8.31	+	
		-	-	66kV CHP - Gedu Fdr.	5.25	+	
		-	-	3x3MVA, 66/11kV TFR	1.08	+	
Total	158.22	Error at Station/Auxiliary Consumption/Losses	-0.28				
4	24MW BHP (U/S)	Unit- I	6.43	220kV BHP - Sementokha Fdr.	43.94	+	
		Unit- II	6.43	66kV BHP - Lobeysa Fdr.	13.86	+	
		Total	12.86	220kV BHP - Tsirang Fdr.	-19.36	-	
	40MW BHP (L/S)	Unit- I	13.14	5MVA, 66/11kV TFR	0.34	+	
		Unit- II	12.60	30MVA ICT, 220/66kV			
		Total	25.74	Error at Station/Auxiliary Consumption/Losses	-0.18		
5	126MW DHPC	Unit-I	39.91	220kV DHPC - Tsirang Fdr.	39.75	+	Unit-II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	39.91	Error at Station/Auxiliary Consumption/Losses	0.16		
6	60MW KHP	Unit- I	12.59	132kV KHP - Nangkhon Fdr- I	31.11	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.65	+	
		Unit- III	12.19	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	11.19	132kV Gelephu - Salakati Fdr.	-0.20	-	
		-	-	132kV Motanga - Rangia Fdr.	-0.77	-	
		-	-	220kV Tsirang - Jigmeling	21.45	+	
		Total	35.97	Error at Station/Auxiliary Consumption/Losses	1.01		

Note: Load summary on November 11, 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	564.70	263.90	258.26	279.35	5.64
2	Eastern Grid	249.94	64.36	57.38	207.03	6.98
	Total	814.64	328.26	315.64	486.38	12.62

Note: Load Summary on November 11, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	253.25	288.21	293.93
2	Eastern Grid	36.64	57.70	62.30
	National	289.89	345.91	356.23

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