

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 9, 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	158.29	400kV THP - Siliguri Fdr- I	115.81		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	110.29	+	
		Unit- IV	91.37	400kV THP - Malbase Fdr- III	186.16	+	
		Unit- V	0.00	400kV Malbase - Siliguri	92.91	+	
		Unit- VI	170.41	-	-	-	
		Total	420.07	Error at Station/Auxiliary Consumption/Losses	7.81		
2	720MW MHP	Unit-I	75.83	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	0.39	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	138.68	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	214.90	Error at Station/Auxiliary Consumption/Losses	6.90		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	33.80	+	Unit-I under shutdown
		Unit- II	68.00	220kV CHP - Birpara Fdr- II	33.60	+	
		Unit- III	67.00	220kV CHP - Malbase Fdr- III	88.00	+	
		Unit- IV	67.00	220kV CHP - Semtokha Fdr- IV	25.20	+	
		-	-	220kV Malbase - Birpara Fdr.	-15.96	-	
		-	-	66kV CHP - Chumdo Fdr.	12.49	+	
		-	-	66kV CHP - Gedu Fdr.	5.82	+	
		-	-	3x3MVA, 66/11kV TFR	1.50	+	
		Total	202.00	Error at Station/Auxiliary Consumption/Losses	1.59		
3	24MW BHP (U/S)	Unit- I	6.62	220kV BHP - Semtokha Fdr.	22.89	+	
		Unit- II	6.62	66kV BHP - Lobeysa Fdr.	16.56	+	
		Total	13.24	220kV BHP - Tsirang Fdr.	0.00	-	
	40MW BHP (L/S)	Unit- I	13.66	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	13.12	30MVA ICT, 220/66kV			
Total	26.78	Error at Station/Auxiliary Consumption/Losses	0.05				
4	126MW DHPC	Unit-I	40.65	220kV DHPC - Tsirang Fdr.	40.39	+	Unit II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	40.65	Error at Station/Auxiliary Consumption/Losses	0.26		
5	60MW KHP	Unit- I	13.15	132kV KHP - Nangkhor Fdr- I	31.03	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.90	+	
		Unit- III	12.25	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.26	132kV Gelephu - Salakati Fdr.	0.18	+	
		-	-	132kV Motanga - Rangia Fdr.	11.94	+	
		-	-	220kV Tsirang - Jigmeling	38.66	+	
		Total	38.66	Error at Station/Auxiliary Consumption/Losses	0.33		

Note: Load summary on November 09, 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	702.74	293.63	284.02	370.45	9.61
2	Eastern Grid	253.56	72.10	64.87	220.12	7.23
	Total	956.30	365.73	348.89	590.57	16.84

Note: Load Summary on November 09, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	262.97	262.97	281.60
2	Eastern Grid	50.80	51.50	62.24
	National	313.77	314.47	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 10, 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	149.51	400kV THP - Siliguri Fdr- I	85.04	+	Unit-II & V under shutdown. Unit-III at standby. 400kV THP_SILI I under Maintenance.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	81.01	+	
		Unit- IV	91.25	400kV THP - Malbase Fdr- III	147.55	+	
		Unit- V	0.00	400kV Malbase - Siliguri	67.20	+	
		Unit- VI	80.90	-	-	-	
		Total	321.66	Error at Station/Auxiliary Consumption/Losses	8.06		
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	29.26	+	CHP Unit-I under shutdownn.
		Unit- II	55.57	220kV CHP - Birpara Fdr- II	29.15	+	
		Unit- III	54.77	220kV CHP - Malbase Fdr- III	82.11	+	
		Unit- IV	59.19	220kV CHP - Sementokha Fdr- IV	6.82	+	
		-	-	220kV Malbase - Birpara Fdr.	-14.58	-	
		-	-	66kV CHP - Chumdo Fdr.	8.98	+	
		-	-	66kV CHP - Gedu Fdr.	4.53	+	
		Total	169.53	Error at Station/Auxiliary Consumption/Losses	7.55		
4	24MW BHP (U/S)	Unit- I	6.56	220kV BHP - Sementokha Fdr.	30.27	+	
		Unit- II	6.56	66kV BHP - Lobeysa Fdr.	13.31	+	
		Total	13.12	220kV BHP - Tsirang Fdr.	-5.03	-	
	40MW BHP (L/S)	Unit- I	13.29	5MVA, 66/11kV TFR	0.41	+	
		Unit- II	12.80	30MVA ICT, 220/66kV			
Total	26.09	Error at Station/Auxiliary Consumption/Losses	0.25				
5	126MW DHPC	Unit-I	40.40	220kV DHPC - Tsirang Fdr.	40.18	+	Unit-II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	40.40	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	12.57	132kV KHP - Nangkhor Fdr- I	32.10	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.27	+	
		Unit- III	12.23	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.04	132kV Gelephu - Salakati Fdr.	8.35	+	
		-	-	132kV Motanga - Rangia Fdr.	10.75	+	
		-	-	220kV Tsirang - Jigmeling	35.48	+	
		Total	36.84	Error at Station/Auxiliary Consumption/Losses	0.17		

Note: Load summary on November 10, 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	570.80	258.24	242.16	277.08	16.08
2	Eastern Grid	250.81	59.19	53.05	227.10	6.14
	Total	821.61	317.43	295.21	504.18	22.22

Note: Load Summary on November 10, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.71	262.97	293.93
2	Eastern Grid	38.66	54.86	62.30
	National	290.37	317.83	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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