

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 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	149.75	400kV THP - Siliguri Fdr- I	76.79	+	Unit- II & III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	73.57	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	150.57	400kV THP - Malbase Fdr- III	143.58	+	
		Unit- V	0.00	400kV Malbase - Siliguri	54.95	+	
		Unit- VI	0.00	-	-	-	
		Total	300.32	Error at Station/Auxiliary Consumption/Losses	6.38		
2	720MW MHP	Unit-I	125.28	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II, III & IV under maintenance. 400kV MHP-JLG I under breakdown. 400kV MHP_JIG Fdr-IV at Standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	60.40	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	61.10	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	125.28	Error at Station/Auxiliary Consumption/Losses	3.78		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdown. 220kV CHP-Bir I Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.02	+	
		Unit- III	64.90	220kV CHP - Malbase Fdr- III	53.45	+	
		Unit- IV	64.36	220kV CHP - Sementokha Fdr- IV	51.71	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.01	-	
		-	-	66kV CHP - Chumdo Fdr.	16.20	+	
		-	-	66kV CHP - Gedu Fdr.	3.35	+	
		-	-	3x3MVA, 66/11kV TFR	1.87	+	
		Total	129.26	Error at Station/Auxiliary Consumption/Losses	0.66		
3	24MW BHP (U/S)	Unit- I	7.92	220kV BHP - Sementokha Fdr.	15.54	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.64	+	
		Total	7.92	220kV BHP - Tsirang Fdr.	-10.33	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.84	+	
		Unit- II	16.10	30MVA ICT, 220/66kV			
Total	16.10	Error at Station/Auxiliary Consumption/Losses	0.33				
4	126MW DHPC	Unit-I	24.22	220kV DHPC - Tsirang Fdr.	24.00	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	24.22	Error at Station/Auxiliary Consumption/Losses	0.22		
5	60MW KHP	Unit- I	12.68	132kV KHP - Nangkhon Fdr- I	14.73	+	Unit-II under shutdown. Unit-III at standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.36	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	11.17	132kV Gelephu - Salakati Fdr.	-21.35	-	
		-	-	132kV Motanga - Rangia Fdr.	-4.82	-	
		-	-	220kV Tsirang - Jigmeling	10.85	+	
		Total	23.85	Error at Station/Auxiliary Consumption/Losses	0.26		

Note: Load summary on December 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	477.82	297.65	290.06	169.32	7.59
2	Eastern Grid	149.13	64.65	60.61	95.33	4.04
	Total	626.95	362.30	350.67	264.65	11.63

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	287.77	290.43	319.28
2	Eastern Grid	65.16	68.30	71.32
	National	352.93	358.73	390.60

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:	December 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	100.00	400kV THP - Siliguri Fdr- I	38.00	+	Unit- II & III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	37.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	90.00	400kV THP - Malbase Fdr- III	109.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	22.00	+	
		Unit- VI	0.00	-	-	-	
		Total	190.00	Error at Station/Auxiliary Consumption/Losses	6.00		
2	720MW MHP	Unit-I	125.29	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III IV under maintenance. Unit-II standby 400kV MHP-JLG I under breakdown. 400kV MHP-JLG IV at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	61.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	61.10	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	125.29	Error at Station/Auxiliary Consumption/Losses	3.09		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdown. 220kV CHP-BIR I at standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-7.80	-	
		Unit- III	49.00	220kV CHP - Malbase Fdr- III	46.90	+	
		Unit- IV	47.00	220kV CHP - Sementokha Fdr- IV	36.40	+	
		-	-	220kV Malbase - Birpara Fdr.	-49.00	-	
		-	-	66kV CHP - Chumdo Fdr.	12.80	+	
		-	-	66kV CHP - Gedu Fdr.	3.90	+	
		-	-	3x3MVA, 66/11kV TFR	1.44	+	
Total	96.00	Error at Station/Auxiliary Consumption/Losses	2.36				
4	24MW BHP (U/S)	Unit- I	8.00	220kV BHP - Sementokha Fdr.	18.47	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.14	+	
		Total	8.00	220kV BHP - Tsirang Fdr.	-11.62	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	15.80	30MVA ICT, 220/66kV			
Total	15.80	Error at Station/Auxiliary Consumption/Losses	-0.17				
5	126MW DHPC	Unit-I	24.55	220kV DHPC - Tsirang Fdr.	24.34	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	24.55	Error at Station/Auxiliary Consumption/Losses	0.21		
6	60MW KHP	Unit- I	12.62	132kV KHP - Nangkhor Fdr- I	18.10	+	Unit-II under shutdown. Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.47	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.12	+	
		Unit- IV	11.19	132kV Gelephu - Salakati Fdr.	-15.32	-	
		-	-	132kV Motanga - Rangia Fdr.	1.11	+	
		-	-	220kV Tsirang - Jigmeling	8.28	+	
		Total	23.81	Error at Station/Auxiliary Consumption/Losses	0.12		

Note: Load summary on December 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	334.35	285.87	277.47	40.20	8.40
2	Eastern Grid	149.10	49.39	46.18	107.99	3.21
	Total	483.45	335.26	323.65	148.19	11.61

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.90	305.93	319.28
2	Eastern Grid	48.69	68.00	71.32
	National	300.59	373.93	390.60

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