

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	January 8, 2020
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	99.83	400kV THP - Siliguri Fdr- I	72.95	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown 400kV THP_SILI-II on standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	160.26	+	
		Unit- V	139.03	400kV Malbase - Siliguri	49.49	+	
		Unit- VI	0.00	-	-	-	
		Total	238.86	Error at Station/Auxiliary Consumption/Losses	5.65		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit III under maintenance. Unit I & II under standby 400kV MHP-JLG I & 400kV MHP-JLG II under shutdown. 400kV MHP_JIG Fdr-IV at Standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	109.17	+	
		Unit-IV	110.45	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	110.45	Error at Station/Auxiliary Consumption/Losses	1.28		
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	0.48	-	
		Unit- III	63.12	220kV CHP - Malbase Fdr- III	28.49	+	
		Unit- IV	62.13	220kV CHP - Sementokha Fdr- IV	71.95	+	
		-	-	220kV Malbase - Birpara Fdr.	-20.88	-	
		-	-	66kV CHP - Chumdo Fdr.	16.77	+	
		-	-	66kV CHP - Gedu Fdr.	4.29	+	
		Total	125.25	Error at Station/Auxiliary Consumption/Losses	1.38		
3	24MW BHP (U/S)	Unit- I	6.90	220kV BHP - Sementokha Fdr.	-1.68	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.12	+	
		Total	6.90	220kV BHP - Tsirang Fdr.	3.29	+	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	14.11	30MVA ICT, 220/66kV			
Total	14.11	Error at Station/Auxiliary Consumption/Losses	0.38				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.43	+	Unit I at Standby.
		Unit-II	21.67	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	21.67	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	12.53	132kV KHP - Nangkhor Fdr- I	8.73	+	Unit-II & III Annual Maintenance.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	12.93	+	
		Unit- III	10.11	5MVA, 132/11kV TFR	0.66	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-13.80	-	
		-	-	132kV Motanga - Rangia Fdr.	-3.28	-	
		-	-	220kV Tsirang - Jigmeling	20.95	+	
		Total	22.64	Error at Station/Auxiliary Consumption/Losses	0.32		

Note: Load summary on January 08, 2020 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	406.79	283.80	276.15	102.04	7.65
2	Eastern Grid	133.09	61.95	60.35	92.09	1.60
	Total	539.88	345.75	336.50	194.13	9.25

Note: Load Summary on January 08, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.57	272.65	308.60
2	Eastern Grid	58.63	58.63	65.91
	National	314.20	331.28	374.51

NOTES: Eastern Data 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.
 - 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:	January 9, 2020
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	99.86	400kV THP - Siliguri Fdr- I	32.39	+	Unit- III & IV at standby. Unit- II & VI under shutdown. 400kV THP_SILL-IV under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	122.60	+	
		Unit- V	59.95	400kV Malbase - Siliguri	11.86	-	
		Unit- VI	0.00	-	-	-	
		Total	159.81	Error at Station/Auxiliary Consumption/Losses	4.82		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III under maintenance. Unit-I & II standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG IV standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	109.24	+	
		Unit-IV	110.24	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	110.24	Error at Station/Auxiliary Consumption/Losses	1.00		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit-I & II under shutdownn. 220kV CHP-BIR I Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-10.57	-	
		Unit- III	40.72	220kV CHP - Malbase Fdr- III	16.89	+	
		Unit- IV	40.30	220kV CHP - Sementokha Fdr- IV	54.15	+	
		-	-	220kV Malbase - Birpara Fdr.	-29.52	-	
		-	-	66kV CHP - Chumdo Fdr.	13.69	+	
		-	-	66kV CHP - Gedu Fdr.	3.86	+	
		-	-	3x3MVA, 66/11kV TFR	1.58	+	
Total	81.02	Error at Station/Auxiliary Consumption/Losses	1.42				
4	24MW BHP (U/S)	Unit- I	7.24	220kV BHP - Sementokha Fdr.	5.20	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.64	+	
		Total	7.24	220kV BHP - Tsirang Fdr.	0.29	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	14.60	30MVA ICT, 220/66kV			
Total	14.60	Error at Station/Auxiliary Consumption/Losses	0.04				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.44	+	Unit-I at Standby
		Unit-II	22.66	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	22.66	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	13.40	132kV KHP - Nangkhor Fdr- I	11.29	+	Unit-II & III Annual Maintenance.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	11.30	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	10.32	132kV Gelephu - Salakati Fdr.	-8.60	-	
		-	-	132kV Motanga - Rangia Fdr.	-2.66	+	
		-	-	220kV Tsirang - Jigmeling	20.60		
		Total	23.72	Error at Station/Auxiliary Consumption/Losses	0.83		

Note: Load summary on January 09, 2020 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	285.33	260.57	254.07	4.16	6.50
2	Eastern Grid	133.96	56.58	54.75	97.98	1.83
	Total	419.29	317.15	308.82	102.14	8.33

Note: Load Summary on January 09, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	267.07	285.02	308.60
2	Eastern Grid	39.39	59.83	65.91
	National	306.46	344.85	374.51

NOTES:Eastern Data 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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