

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 14, 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	75.00	400kV THP - Siliguri Fdr- I	74.00	+	Unit-III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	140.00	400kV THP - Siliguri Fdr- II	73.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	75.00	400kV THP - Malbase Fdr- III	135.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	52.00	+	
		Unit- VI	0.00	-	-	-	
		Total	290.00	Error at Station/Auxiliary Consumption/Losses	8.00		
2	720MW MHP	Unit-I	139.7	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II, III IV under maintenance. MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	137.40	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	139.70	Error at Station/Auxiliary Consumption/Losses	2.30		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	2.10	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.10	+	
		Unit- III	67.50	220kV CHP - Malbase Fdr- III	57.00	+	
		Unit- IV	67.50	220kV CHP - Sementokha Fdr- IV	49.30	+	
		-	-	220kV Malbase - Birpara Fdr.	-41.00	-	
		-	-	66kV CHP - Chumdo Fdr.	16.00	+	
		-	-	66kV CHP - Gedu Fdr.	4.10	+	
		-	-	3x3MVA, 66/11kV TFR	1.95	+	
		Total	135.00	Error at Station/Auxiliary Consumption/Losses	2.45		
3	24MW BHP (U/S)	Unit- I	8.90	220kV BHP - Sementokha Fdr.	16.78	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.87	+	
		Total	8.90	220kV BHP - Tsirang Fdr.	-10.68	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	17.60	30MVA ICT, 220/66kV			
Total	17.60	Error at Station/Auxiliary Consumption/Losses	1.54				
4	126MW DHPC	Unit-I	26.84	220kV DHPC - Tsirang Fdr.	26.60	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	26.84	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	12.66	132kV KHP - Nangkhoh Fdr- I	13.40	+	Unit-IV at standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	11.01	+	
		Unit- III	12.23	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-21.22	-	
		-	-	132kV Motanga - Rangia Fdr.	-11.08	-	
		-	-	220kV Tsirang - Jigmeling	11.83	+	
		Total	24.89	Error at Station/Auxiliary Consumption/Losses	0.08		

Note: Load summary on December 14, 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	478.34	304.31	292.08	162.20	12.23
2	Eastern Grid	164.59	71.32	68.94	105.10	2.38
	Total	642.93	375.63	361.02	267.30	14.61

Note: Load Summary on December 14, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	262.08	266.76	319.28
2	Eastern Grid	65.95	65.95	71.32
	National	328.03	332.71	390.60

NOTES: ALL WESTERN LOADS 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:	December 15, 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	70.00	400kV THP - Siliguri Fdr- I	49.00	+	Unit- III under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	47.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.83	400kV THP - Malbase Fdr- III	109.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	30.00	+	
		Unit- VI	0.00	-	-	-	
		Total	210.83	Error at Station/Auxiliary Consumption/Losses	5.83		
2	720MW MHP	Unit-I	135.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & IV under maintenance. Unit II standby 400kV MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	133.76	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	135.00	Error at Station/Auxiliary Consumption/Losses	1.24		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	5.00	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	4.90	+	
		Unit- III	56.87	220kV CHP - Malbase Fdr- III	57.00	+	
		Unit- IV	57.12	220kV CHP - Sementokha Fdr- IV	26.40	+	
		-	-	220kV Malbase - Birpara Fdr.	-39.00	-	
		-	-	66kV CHP - Chumdo Fdr.	12.20	+	
		-	-	66kV CHP - Gedu Fdr.	3.30	+	
		-	-	3x3MVA, 66/11kV TFR	1.95	+	
		Total	113.99	Error at Station/Auxiliary Consumption/Losses	3.24		
4	24MW BHP (U/S)	Unit- I	8.50	220kV BHP - Sementokha Fdr.	24.65	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.00	+	
		Total	8.50	220kV BHP - Tsirang Fdr.	-13.62	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.85	+	
		Unit- II	16.70	30MVA ICT, 220/66kV			
Total	16.70	Error at Station/Auxiliary Consumption/Losses	-1.68				
5	126MW DHPC	Unit-I	27.24	220kV DHPC - Tsirang Fdr.	27.02	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	27.24	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	12.60	132kV KHP - Nangkhon Fdr- I	17.63	+	Unit-II under shutdown. Unit-IV Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.79	+	
		Unit- III	12.27	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-11.68	-	
		-	-	132kV Motanga - Rangia Fdr.	-1.42	-	
		-	-	220kV Tsirang - Jigmeling	10.51	+	
		Total	24.87	Error at Station/Auxiliary Consumption/Losses	0.15		

Note: Load summary on December 15, 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	377.26	269.85	262.24	96.90	7.61
2	Eastern Grid	159.87	49.72	48.33	120.66	1.39
	Total	537.13	319.57	310.57	217.56	9.00

Note: Load Summary on December 15, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	268.29	286.12	319.28
2	Eastern Grid	48.59	61.84	71.32
	National	316.88	347.96	390.60

NOTES:ALL WESTERN LOADS COLLECTED FROM SITE

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 - 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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