

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 15, 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	70.00	400kV THP - Siliguri Fdr- I	67.00	+	Unit-III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	100.40	400kV THP - Siliguri Fdr- II	66.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	100.00	400kV THP - Malbase Fdr- III	127.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	44.00	+	
		Unit- VI	0.00	-	-	-	
		Total	270.40	Error at Station/Auxiliary Consumption/Losses	10.40		
2	720MW MHP	Unit-I	154.6	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	153.50	+	
		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	154.60	Error at Station/Auxiliary Consumption/Losses	1.10		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	3.30	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	3.30	+	
		Unit- III	67.50	220kV CHP - Malbase Fdr- III	55.40	+	
		Unit- IV	67.50	220kV CHP - Sementokha Fdr- IV	51.20	+	
		-	-	220kV Malbase - Birpara Fdr.	-41.00	-	
		-	-	66kV CHP - Chumdo Fdr.	16.20	+	
		-	-	66kV CHP - Gedu Fdr.	3.80	+	
		-	-	3x3MVA, 66/11kV TFR	1.20	+	
		Total	135.00	Error at Station/Auxiliary Consumption/Losses	0.60		
		3	24MW BHP (U/S)	Unit- I	8.80	220kV BHP - Sementokha Fdr.	
Unit- II	0.00			66kV BHP - Lobeysa Fdr.	19.57	+	
Total	8.80			220kV BHP - Tsirang Fdr.	-7.24	-	
40MW BHP (L/S)	Unit- I		0.00	5MVA, 66/11kV TFR	0.99	+	
	Unit- II		17.30	30MVA ICT, 220/66kV			
Total	17.30	Error at Station/Auxiliary Consumption/Losses	1.49				
4	126MW DHPC	Unit-I	25.56	220kV DHPC - Tsirang Fdr.	25.32	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	25.56	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	13.54	132kV KHP - Nangkhoh Fdr- I	15.52	+	Unit-II under shutdown. Unit-IV at standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.56	+	
		Unit- III	12.32	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-19.24	-	
		-	-	132kV Motanga - Rangia Fdr.	-7.81	-	
		-	-	220kV Tsirang - Jigmeling	14.62	+	
		Total	25.86	Error at Station/Auxiliary Consumption/Losses	0.28		

Note: Load summary on December 15, 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	457.06	299.84	290.09	142.60	9.75
2	Eastern Grid	180.46	68.63	67.25	126.45	1.38
	Total	637.52	368.47	357.34	269.05	11.13

Note: Load Summary on December 15, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	286.12	286.12	319.28
2	Eastern Grid	56.89	61.84	71.32
	National	343.01	347.96	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 16, 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	48.00	+	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	70.00	400kV THP - Malbase Fdr- III	109.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	29.00	+	
		Unit- VI	0.00	-	-	-	
		Total	210.00	Error at Station/Auxiliary Consumption/Losses	6.00		
2	720MW MHP	Unit-I	135.18	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	135.00	+	
		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	135.18	Error at Station/Auxiliary Consumption/Losses	0.18		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	2.10	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.30	+	
		Unit- III	45.00	220kV CHP - Malbase Fdr- III	50.90	+	
		Unit- IV	58.00	220kV CHP - Sementokha Fdr- IV	29.60	+	
		-	-	220kV Malbase - Birpara Fdr.	-35.00	-	
		-	-	66kV CHP - Chumdo Fdr.	12.90	+	
		-	-	66kV CHP - Gedu Fdr.	3.20	+	
		-	-	3x3MVA, 66/11kV TFR	1.95	+	
Total	103.00	Error at Station/Auxiliary Consumption/Losses	0.05				
4	24MW BHP (U/S)	Unit- I	8.50	220kV BHP - Sementokha Fdr.	20.00	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.76	+	
		Total	8.50	220kV BHP - Tsirang Fdr.	-14.92	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	21.10	30MVA ICT, 220/66kV			
Total	21.10	Error at Station/Auxiliary Consumption/Losses	8.78				
5	126MW DHPC	Unit-I	27.26	220kV DHPC - Tsirang Fdr.	27.03	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	27.26	Error at Station/Auxiliary Consumption/Losses	0.23		
6	60MW KHP	Unit- I	12.35	132kV KHP - Nangkhor Fdr- I	17.49	+	Unit-II under shutdown. Unit-IV Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.63	+	
		Unit- III	12.25	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-12.82	-	
		-	-	132kV Motanga - Rangia Fdr.	-2.19	-	
		-	-	220kV Tsirang - Jigmeling	11.20	+	
		Total	24.60	Error at Station/Auxiliary Consumption/Losses	0.18		

Note: Load summary on December 16, 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	369.86	265.26	250.20	93.40	15.06
2	Eastern Grid	159.78	50.99	50.63	119.99	0.36
	Total	529.64	316.25	300.83	213.39	15.42

Note: Load Summary on December 16, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	260.98	289.79	319.28
2	Eastern Grid	51.91	66.24	71.32
	National	312.89	356.03	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:
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