

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 16, 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	85.00	+	Unit-III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	110.00	400kV THP - Siliguri Fdr- II	85.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	140.00	400kV THP - Malbase Fdr- III	150.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	59.00	+	
		Unit- VI	0.00	-	-	-	
		Total	320.00	Error at Station/Auxiliary Consumption/Losses	0.00		
2	720MW MHP	Unit-I	129.7	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	127.30	+	
		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	129.70	Error at Station/Auxiliary Consumption/Losses	2.40		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	3.00	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	3.00	+	
		Unit- III	69.00	220kV CHP - Malbase Fdr- III	48.90	+	
		Unit- IV	69.20	220kV CHP - Sementokha Fdr- IV	58.20	+	
		-	-	220kV Malbase - Birpara Fdr.	-30.00	-	
		-	-	66kV CHP - Chumdo Fdr.	16.30	+	
		-	-	66kV CHP - Gedu Fdr.	4.20	+	
		-	-	3x3MVA, 66/11kV TFR	1.02	+	
		Total	138.20	Error at Station/Auxiliary Consumption/Losses	3.58		
3	24MW BHP (U/S)	Unit- I	8.50	220kV BHP - Sementokha Fdr.	7.72	+	U/S Unit-II under maintenance. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.50	+	
		Total	8.50	220kV BHP - Tsirang Fdr.	-3.12	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	16.90	30MVA ICT, 220/66kV			
Total	16.90	Error at Station/Auxiliary Consumption/Losses	3.40				
4	126MW DHPC	Unit-I	25.30	220kV DHPC - Tsirang Fdr.	25.07	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	25.30	Error at Station/Auxiliary Consumption/Losses	0.23		
5	60MW KHP	Unit- I	12.35	132kV KHP - Nangkhon Fdr- I	14.76	+	Unit-III at standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.76	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	12.77	132kV Gelephu - Salakati Fdr.	-19.44	-	
		-	-	132kV Motanga - Rangia Fdr.	-10.53	-	
		-	-	220kV Tsirang - Jigmeling	17.22	+	
		Total	25.12	Error at Station/Auxiliary Consumption/Losses	0.10		

Note: Load summary on December 16, 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	508.90	286.68	279.47	205.00	7.21
2	Eastern Grid	154.82	74.71	72.21	97.33	2.50
	Total	663.72	361.39	351.68	302.33	9.71

Note: Load Summary on December 16, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	285.33	289.79	319.28
2	Eastern Grid	65.91	66.24	71.32
	National	351.24	356.03	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 17, 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	63.33	400kV THP - Siliguri Fdr- I	40.00	+	Unit- III under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	63.33	400kV THP - Siliguri Fdr- II	39.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	63.33	400kV THP - Malbase Fdr- III	104.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	20.00	+	
		Unit- VI	0.00	-	-	-	
		Total	189.99	Error at Station/Auxiliary Consumption/Losses	6.99		
2	720MW MHP	Unit-I	134.90	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	133.00	+	
		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	134.90	Error at Station/Auxiliary Consumption/Losses	1.90		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.13	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	0.25	+	
		Unit- III	49.50	220kV CHP - Malbase Fdr- III	54.35	+	
		Unit- IV	49.50	220kV CHP - Sementokha Fdr- IV	27.12	+	
		-	-	220kV Malbase - Birpara Fdr.	-41.00	-	
		-	-	66kV CHP - Chumdo Fdr.	11.30	+	
		-	-	66kV CHP - Gedu Fdr.	4.10	+	
		-	-	3x3MVA, 66/11kV TFR	1.80	+	
		Total	99.00	Error at Station/Auxiliary Consumption/Losses	-0.05		
4	24MW BHP (U/S)	Unit- I	8.40	220kV BHP - Sementokha Fdr.	19.92	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	12.76	+	
		Total	8.40	220kV BHP - Tsirang Fdr.	-9.76	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	16.50	30MVA ICT, 220/66kV			
		Total	16.50	Error at Station/Auxiliary Consumption/Losses	0.99		
5	126MW DHPC	Unit-I	25.78	220kV DHPC - Tsirang Fdr.	25.57	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	25.78	Error at Station/Auxiliary Consumption/Losses	0.21		
6	60MW KHP	Unit- I	12.40	132kV KHP - Nangkhon Fdr- I	16.15	+	Unit-II under shutdown. Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.95	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	10.10	132kV Gelephu - Salakati Fdr.	-12.95	-	
		-	-	132kV Motanga - Rangia Fdr.	-5.52	-	
		-	-	220kV Tsirang - Jigmeling	13.21	+	
		Total	22.50	Error at Station/Auxiliary Consumption/Losses	-0.10		

Note: Load summary on December 17, 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	339.67	268.08	259.94	58.38	8.14
2	Eastern Grid	157.40	56.08	54.28	114.53	1.80
	Total	497.07	324.16	314.22	172.91	9.94

Note: Load Summary on December 17, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	261.37	287.13	319.28
2	Eastern Grid	51.42	67.29	71.32
	National	312.79	354.42	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.