

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 4, 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	70.27	400kV THP - Siliguri Fdr- I	81.25	+	Unit-II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown			
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	79.22	+				
		Unit- III	149.24	400kV THP - Siliguri Fdr- IV	0.00					
		Unit- IV	89.75	400kV THP - Malbase Fdr- III	142.73	+				
		Unit- V	0.00	400kV Malbase - Siliguri	62.59	+				
		Unit- VI	0.00	-	-	-				
		Total	309.26	Error at Station/Auxiliary Consumption/Losses	6.06					
2	720MW MHP	Unit-I	124.60	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II, III & IV under maintenance. 400kV MHP-JLG I under breakdown.			
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	124.00	+				
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00					
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00					
		-	-	200MVA, 400/132kV ICT	0.00					
		-	-	(Local Load)	0.00					
		Total	124.60	Error at Station/Auxiliary Consumption/Losses	0.60					
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	8.17	+	Unit-I & II under shutdown.			
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	8.17	+				
		Unit- III	69.54	220kV CHP - Malbase Fdr- III	60.18	+				
		Unit- IV	71.15	220kV CHP - Sementokha Fdr- IV	42.00	+				
		-	-	220kV Malbase - Birpara Fdr.	-31.53	-				
		-	-	66kV CHP - Chumdo Fdr.	15.16	+				
		-	-	66kV CHP - Gedu Fdr.	4.06	+				
		-	-	3x3MVA, 66/11kV TFR	1.98	+				
		Total	140.69	Error at Station/Auxiliary Consumption/Losses	0.97					
		3	24MW BHP (U/S)	Unit- I	9.26	220kV BHP - Sementokha Fdr.		20.28	+	U/S Unit-II under maintenace. L/S Unit-I standby.
Unit- II	0.00			66kV BHP - Lobeysa Fdr.	17.36	+				
Total	9.26			220kV BHP - Tsirang Fdr.	-10.34	-				
40MW BHP (L/S)	Unit- I		0.00	5MVA, 66/11kV TFR	0.82	+				
	Unit- II		18.74	30MVA ICT, 220/66kV						
Total	18.74	Error at Station/Auxiliary Consumption/Losses	0.12							
4	126MW DHPC	Unit-I	29.29	220kV DHPC - Tsirang Fdr.	29.06	+	Unit II Standby.			
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.						
		-	-	5MVA, 220/33kV TFR						
		Total	29.29	Error at Station/Auxiliary Consumption/Losses	0.23					
		5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I		18.47	+	Unit-I standby. Unit-II under shutdown.
				Unit-II	0.00	132kV KHP - Kilikhar Fdr- II		8.49	+	
				Unit- III	15.18	5MVA, 132/11kV TFR		0.30	+	
Unit- IV	12.15			132kV Gelephu - Salakati Fdr.	-17.65	-				
-	-			132kV Motanga - Rangia Fdr.	0.00					
-	-			220kV Tsirang - Jigmeling	15.44	+				
Total	27.33			Error at Station/Auxiliary Consumption/Losses	0.07					

Note: Load summary on December 04, 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	507.24	283.93	276.79	207.87	7.14
2	Eastern Grid	151.93	61.02	60.35	106.35	0.67
	Total	659.17	344.95	337.14	314.22	7.81

Note: Load Summary on December 04, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	288.77	288.77	319.28
2	Eastern Grid	58.96	63.85	71.32
	National	347.73	352.62	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 5, 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	70.13	400kV THP - Siliguri Fdr- I	56.14	+	Unit- II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	55.07	+	
		Unit- III	70.45	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	90.73	400kV THP - Malbase Fdr- III	112.18	+	
		Unit- V	0.00	400kV Malbase - Siliguri	40.05	+	
		Unit- VI	0.00	-	-	-	
		Total	231.31	Error at Station/Auxiliary Consumption/Losses	7.92		
2	720MW MHP	Unit-I	155.90	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II, III & IV under maintenance. 400kV MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	154.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		Total	155.90	Error at Station/Auxiliary Consumption/Losses	1.90		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	5.82	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	5.72	+	
		Unit- III	57.23	220kV CHP - Malbase Fdr- III	58.44	+	
		Unit- IV	55.36	220kV CHP - Sementokha Fdr- IV	24.23	+	
		-	-	220kV Malbase - Birpara Fdr.	-34.82	-	
		-	-	66kV CHP - Chumdo Fdr.	11.20	+	
		-	-	66kV CHP - Gedu Fdr.	4.47	+	
		-	-	3x3MVA, 66/11kV TFR	1.36	+	
		Total	112.59	Error at Station/Auxiliary Consumption/Losses	1.35		
4	24MW BHP (U/S)	Unit- I	9.04	220kV BHP - Sementokha Fdr.	26.17	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.97	+	
		Total	9.04	220kV BHP - Tsirang Fdr.	-14.22	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.48	+	
		Unit- II	18.21	30MVA ICT, 220/66kV			
Total	18.21	Error at Station/Auxiliary Consumption/Losses	-0.15				
5	126MW DHPC	Unit-I	28.67	220kV DHPC - Tsirang Fdr.	28.43	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	28.67	Error at Station/Auxiliary Consumption/Losses	0.24		
6	60MW KHP	Unit- I	12.51	132kV KHP - Nangkhor Fdr- I	21.56	+	Unit-II under shutdown. Unit-IV Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.23	+	
		Unit- III	14.61	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-15.36	-	
		-	-	132kV Motanga - Rangia Fdr.	-15.75	-	
		-	-	220kV Tsirang - Jigmeling	12.18	+	
		Total	27.12	Error at Station/Auxiliary Consumption/Losses	0.03		

Note: Load summary on December 05, 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	399.82	259.66	250.30	127.98	9.36
2	Eastern Grid	183.02	72.31	70.38	122.89	1.93
	Total	582.84	331.97	320.68	250.87	11.29

Note: Load Summary on December 05, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	263.50	285.17	319.28
2	Eastern Grid	55.33	71.13	71.32
	National	318.83	356.30	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.