

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 30, 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	78.20	400kV THP - Siliguri Fdr- I	83.10	+	Unit-II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV standby.			
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	81.42	+				
		Unit- III	140.85	400kV THP - Siliguri Fdr- IV	0.00	+				
		Unit- IV	91.23	400kV THP - Malbase Fdr- III	138.93	+				
		Unit- V	0.00	400kV Malbase - Siliguri	64.49	+				
		Unit- VI	0.00	-	-	-				
		Total	310.28	Error at Station/Auxiliary Consumption/Losses	6.83					
2	720MW MHP	Unit-I	194.00	400kV MHP - Jigmeling Fdr - I	189.00	+	Unit III & IV under maintenance. 400kV MHP-JLG II under breakdown.			
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+				
		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	194.00	Error at Station/Auxiliary Consumption/Losses	5.00					
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	12.15	+	Unit-I & II under shutdown.			
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	12.07	+				
		Unit- III	74.22	220kV CHP - Malbase Fdr- III	66.07	+				
		Unit- IV	75.70	220kV CHP - Sementokha Fdr- IV	37.65	+				
		-	-	220kV Malbase - Birpara Fdr.	-30.96	-				
		-	-	66kV CHP - Chumdo Fdr.	14.47	+				
		-	-	66kV CHP - Gedu Fdr.	4.80	+				
		-	-	3x3MVA, 66/11kV TFR	1.71	+				
		Total	149.92	Error at Station/Auxiliary Consumption/Losses	1.00					
		3	24MW BHP (U/S)	Unit- I	9.76	220kV BHP - Sementokha Fdr.		19.48	+	U/S Unit-II standby. L/S Unit-I standby.
Unit- II	0.00			66kV BHP - Lobeysa Fdr.	15.92	+				
Total	9.76			220kV BHP - Tsirang Fdr.	-6.74	-				
40MW BHP (L/S)	Unit- I		0.00	5MVA, 66/11kV TFR	0.71	+				
	Unit- II		19.54	30MVA ICT, 220/66kV						
Total	19.54	Error at Station/Auxiliary Consumption/Losses	0.07							
4	126MW DHPC	Unit-I	29.76	220kV DHPC - Tsirang Fdr.	29.50	+	Unit II Standby.			
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.						
		-	-	5MVA, 220/33kV TFR						
		Total	29.76	Error at Station/Auxiliary Consumption/Losses	0.26					
		5	60MW KHP	Unit- I	14.10	132kV KHP - Nangkhon Fdr- I		22.34	+	Unit-II under shutdown . Unit-IV standby.
				Unit-II	0.00	132kV KHP - Kilikhar Fdr- II		5.89	+	
				Unit- III	15.31	5MVA, 132/11kV TFR		0.30	+	
Unit- IV	0.00			132kV Gelephu - Salakati Fdr.	-5.58	-				
-	-			132kV Motanga - Rangia Fdr.	2.43	+				
-	-			220kV Tsirang - Jigmeling	25.88	+				
Total	29.41			Error at Station/Auxiliary Consumption/Losses	0.88					

Note: Load summary on November 30, 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	519.26	271.11	263.09	222.27	8.02
2	Eastern Grid	223.41	63.44	57.56	185.85	5.88
	Total	742.67	334.55	320.65	408.12	13.90

Note: Load Summary on November 30, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	290.41	290.41	281.60
2	Eastern Grid	48.27	51.88	62.24
	National	338.68	342.29	343.84

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 1, 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	80.52	400kV THP - Siliguri Fdr- I	66.11		Unit- II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	64.30	+	
		Unit- III	69.20	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	91.51	400kV THP - Malbase Fdr- III	105.45	+	
		Unit- V	0.00	400kV Malbase - Siliguri	52.19	+	
		Unit- VI	0.00	-	-	-	
		Total	241.23	Error at Station/Auxiliary Consumption/Losses	5.37		
2	720MW MHP	Unit-I	160.00	400kV MHP - Jigmeling Fdr - I	158.60	+	Unit-II, III & IV under breakdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+	
		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	160.00	Error at Station/Auxiliary Consumption/Losses	1.40		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	9.72	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	9.67	+	
		Unit- III	59.11	220kV CHP - Malbase Fdr- III	66.82	+	
		Unit- IV	56.85	220kV CHP - Sementokha Fdr- IV	13.01	+	
		-	-	220kV Malbase - Birpara Fdr.	-34.33	-	
		-	-	66kV CHP - Chumdo Fdr.	10.08	+	
		-	-	66kV CHP - Gedu Fdr.	4.61	+	
		-	-	3x3MVA, 66/11kV TFR	1.26	+	
		Total	115.96	Error at Station/Auxiliary Consumption/Losses	0.79		
4	24MW BHP (U/S)	Unit- I	9.62	220kV BHP - Sementokha Fdr.	31.03	+	Upper stage Unit-II standby. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	13.43	+	
		Total	9.62	220kV BHP - Tsirang Fdr.	-15.91	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.48	+	
		Unit- II	19.30	30MVA ICT, 220/66kV			
Total	19.30	Error at Station/Auxiliary Consumption/Losses	-0.11				
5	126MW DHPC	Unit-I	30.23	220kV DHPC - Tsirang Fdr.	29.95	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	30.23	Error at Station/Auxiliary Consumption/Losses	0.28		
6	60MW KHP	Unit- I	13.15	132kV KHP - Nangkhoh Fdr- I	24.12	+	Unit-II under shutdown. Unit-IV Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.73	+	
		Unit- III	14.92	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-13.44	-	
		-	-	132kV Motanga - Rangia Fdr.	-11.02	-	
		-	-	220kV Tsirang - Jigmeling	11.61	+	
		Total	28.07	Error at Station/Auxiliary Consumption/Losses	-0.08		

Note: Load summary on December 01, 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	416.34	237.07	230.74	167.66	6.33
2	Eastern Grid	188.07	65.54	64.22	134.14	1.32
	Total	604.41	302.61	294.96	301.80	7.65

Note: Load Summary on December 01, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	258.89	272.10	319.28
2	Eastern Grid	46.18	64.62	71.32
	National	305.07	336.72	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.
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