

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 28, 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	159.57	400kV THP - Siliguri Fdr- I	113.99	+	Unit-III under PTW & II at standby. Unit- IV & VI under shutdown. 400kV THP_SILI-IV standby.			
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	110.77	+				
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+				
		Unit- IV	170.12	400kV THP - Malbase Fdr- III	99.29	+				
		Unit- V	0.00	400kV Malbase - Siliguri	0.00	+				
		Unit- VI	0.00	-	-	-				
		Total	329.69	Error at Station/Auxiliary Consumption/Losses	5.64					
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	178.90	+	400kV MHP-JLG II at standby,Unit I,III & IV under maintenance.			
		Unit-II	180.15	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	180.15	Error at Station/Auxiliary Consumption/Losses	1.25					
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	47.44	+	Unit-I & II under shutdown.			
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	47.40	+				
		Unit- III	79.91	220kV CHP - Malbase Fdr- III	0.00	+				
		Unit- IV	79.44	220kV CHP - Sementokha Fdr- IV	40.45	+				
		-	-	220kV Malbase - Birpara Fdr.	-78.25	-				
		-	-	66kV CHP - Chumdo Fdr.	13.28	+				
		-	-	66kV CHP - Gedu Fdr.	9.03	+				
		-	-	3x3MVA, 66/11kV TFR	1.67	+				
		Total	159.35	Error at Station/Auxiliary Consumption/Losses	0.08					
		3	24MW BHP (U/S)	Unit- I	4.94	220kV BHP - Sementokha Fdr.		17.69	+	
Unit- II	4.94			66kV BHP - Lobeysa Fdr.	16.00	+				
Total	9.88			220kV BHP - Tsirang Fdr.	-2.29	-				
40MW BHP (L/S)	Unit- I		11.36	5MVA, 66/11kV TFR	0.66	+				
	Unit- II		10.87	30MVA ICT, 220/66kV						
Total	22.23	Error at Station/Auxiliary Consumption/Losses	0.05							
4	126MW DHPC	Unit-I	31.33	220kV DHPC - Tsirang Fdr.	31.07	+	Unit II at Standby			
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.						
		-	-	5MVA, 220/33kV TFR						
		Total	31.33	Error at Station/Auxiliary Consumption/Losses	0.26					
		5	60MW KHP	Unit- I	15.14	132kV KHP - Nangkhor Fdr- I		22.37	+	Unit-II under shutdown Unit-IV Standby
				Unit-II	0.00	132kV KHP - Kilikhar Fdr- II		6.77	+	
				Unit- III	16.20	5MVA, 132/11kV TFR		0.40	+	
Unit- IV	0.00			132kV Gelephu - Salakati Fdr.	-13.13	-				
-	-			132kV Motanga - Rangia Fdr.	-12.82	+				
-	-			220kV Tsirang - Jigmeling	25.55	+				
Total	31.34			Error at Station/Auxiliary Consumption/Losses	1.80					

Note: Load summary on November 28, 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	552.48	285.58	279.55	241.35	6.03
2	Eastern Grid	211.49	84.09	81.04	152.95	3.05
	Total	763.97	369.67	360.59	394.30	9.08

Note: Load Summary on November 28, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	283.74	289.38	281.60
2	Eastern Grid	43.79	48.12	62.24
	National	327.53	337.50	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:	November 29, 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	77.51	400kV THP - Siliguri Fdr- I	56.22		Unit-III under PTW & II at standby. Unit- IV & VI under shutdown. 400kV THP_SILI-IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	54.51	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	160.75	400kV THP - Malbase Fdr- III	120.81	+	
		Unit- V	0.00	400kV Malbase - Siliguri	37.35	+	
		Unit- VI	0.00	-	-	-	
		Total	238.26	Error at Station/Auxiliary Consumption/Losses	6.72		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	155.00	+	Unit-I at standby Unit-III & IV under breakdown
		Unit-II	155.82	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	155.82	Error at Station/Auxiliary Consumption/Losses	0.82		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	40.72	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	40.36	+	
		Unit- III	60.74	220kV CHP - Malbase Fdr- III	0.00	+	
		Unit- IV	61.21	220kV CHP - Sementokha Fdr- IV	20.84	+	
		-	-	220kV Malbase - Birpara Fdr.	-95.83	-	
		-	-	66kV CHP - Chumdo Fdr.	10.02	+	
		-	-	66kV CHP - Gedu Fdr.	8.52	+	
		-	-	3x3MVA, 66/11kV TFR	1.17	+	
		Total	121.95	Error at Station/Auxiliary Consumption/Losses	0.32		
4	24MW BHP (U/S)	Unit- I	4.84	220kV BHP - Sementokha Fdr.	26.18	+	
		Unit- II	4.84	66kV BHP - Lobeysa Fdr.	13.75	+	
		Total	9.68	220kV BHP - Tsirang Fdr.	-11.08	-	
	40MW BHP (L/S)	Unit- I	9.96	5MVA, 66/11kV TFR	0.48	+	
		Unit- II	9.52	30MVA ICT, 220/66kV			
Total	19.48	Error at Station/Auxiliary Consumption/Losses	-0.17				
5	126MW DHPC	Unit-I	30.99	220kV DHPC - Tsirang Fdr.	30.78	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	30.99	Error at Station/Auxiliary Consumption/Losses	0.21		
6	60MW KHP	Unit- I	14.20	132kV KHP - Nangkhor Fdr- I	24.82	+	Unit-II under shutdown. Unit-IV Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.12	+	
		Unit- III	15.20	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-12.27	-	
		-	-	132kV Motanga - Rangia Fdr.	-11.03	-	
		-	-	220kV Tsirang - Jigmeling	15.50	+	
		Total	29.40	Error at Station/Auxiliary Consumption/Losses	0.26		

Note: Load summary on November 29, 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	420.36	271.53	264.45	133.33	7.08
2	Eastern Grid	185.22	69.02	67.94	131.70	1.08
	Total	605.58	340.55	332.39	265.03	8.16

Note: Load Summary on November 29, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	250.67	293.93	293.93
2	Eastern Grid	49.00	57.07	62.30
	National	299.67	351.00	356.23

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:
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