

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	January 6, 2020
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	90.43	400kV THP - Siliguri Fdr- I	54.30	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown			
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	52.93	+				
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00					
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	147.04	+				
		Unit- V	170.14	400kV Malbase - Siliguri	29.74	+				
		Unit- VI	0.00	-	-	-				
		Total	260.57	Error at Station/Auxiliary Consumption/Losses	6.30					
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit- I & III under maintenance. Unit-IV under standby 400kV MHP-JLG I & 400kV MHP-JLG II under shutdown. 400kV MHP_JIG Fdr-IV at Standby.			
		Unit-II	120.36	400kV MHP - Jigmeling Fdr - II	0.00					
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	119.89	+				
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00					
		-	-	200MVA, 400/132kV ICT						
		-	-	(Local Load)						
		Total	120.36	Error at Station/Auxiliary Consumption/Losses	0.47					
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-8.92		Unit-I & II under shutdown. 220kV Mal-Bir lihe under Shutdown.			
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-8.70	+				
		Unit- III	61.26	220kV CHP - Malbase Fdr- III	43.66	+				
		Unit- IV	61.85	220kV CHP - Sementokha Fdr- IV	74.84	+				
		-	-	220kV Malbase - Birpara Fdr.	0.00	-				
		-	-	66kV CHP - Chumdo Fdr.	17.83	+				
		-	-	66kV CHP - Gedu Fdr.	3.79	+				
Total	123.11	Error at Station/Auxiliary Consumption/Losses	-1.46							
3	24MW BHP (U/S)	Unit- I	7.29	220kV BHP - Sementokha Fdr.	-2.69	+	U/S Unit-II under maintenace. L/S Unit-I at standby.			
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.30	+				
		Total	7.29	220kV BHP - Tsirang Fdr.	4.67	-				
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.99	+				
		Unit- II	14.18	30MVA ICT, 220/66kV						
Total	14.18	Error at Station/Auxiliary Consumption/Losses	0.20							
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.91	+	Unit I at Standby.			
		Unit-II	20.12	220kV Jigmeling - Dagapela Fdr.						
		-	-	5MVA, 220/33kV TFR						
		Total	20.12	Error at Station/Auxiliary Consumption/Losses	0.21					
		5	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I		10.51	+	Unit-III & IV Annual Maintenance.
				Unit-II	0.00	132kV KHP - Kilikhar Fdr- II		4.66	+	
				Unit- III	0.00	5MVA, 132/11kV TFR		0.40	+	
Unit- IV	0.00			132kV Gelephu - Salakati Fdr.	-17.60	-				
-	-	132kV Motanga - Rangia Fdr.	4.20	+						
-	-	220kV Tsirang - Jigmeling	11.45	+						
Total	16.50	Error at Station/Auxiliary Consumption/Losses	0.93							

Note: Load summary on January 06, 2020 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	425.27	294.47	289.22	119.35	5.25
2	Eastern Grid	136.86	41.82	40.42	106.49	1.40
	Total	562.13	336.29	329.64	225.84	6.65

Note: Load Summary on January 06, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	*	*	NA
2	Eastern Grid	*	*	NA
	National	#VALUE!	#VALUE!	#VALUE!

NOTES: Eastern Data 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:	January 7, 2020
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	89.94	400kV THP - Siliguri Fdr- I	17.12	+	Unit- III & IV at standby. Unit- II & VI under shutdown. 400kV THP_SILL-IV under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	17.90	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	118.56	+	
		Unit- V	68.85	400kV Malbase - Siliguri	-3.43	-	
		Unit- VI	0.00	-	-	-	
		Total	158.79	Error at Station/Auxiliary Consumption/Losses	5.21		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & I under maintenance. Unit-IV standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG IV standby.
		Unit-II	112.36	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	112.03	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	112.36	Error at Station/Auxiliary Consumption/Losses	0.33		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-19.36	-	Unit-I & II under shutdownn. 220kV MAL-BIR shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-19.30	-	
		Unit- III	40.00	220kV CHP - Malbase Fdr- III	49.15	+	
		Unit- IV	40.00	220kV CHP - Sementokha Fdr- IV	49.23	+	
		-	-	220kV Malbase - Birpara Fdr.	0.00	-	
		-	-	66kV CHP - Chumdo Fdr.	13.67	+	
		-	-	66kV CHP - Gedu Fdr.	4.87	+	
		-	-	3x3MVA, 66/11kV TFR	1.46	+	
Total	80.00	Error at Station/Auxiliary Consumption/Losses	0.28				
4	24MW BHP (U/S)	Unit- I	6.87	220kV BHP - Sementokha Fdr.	11.02	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.10	+	
		Total	6.87	220kV BHP - Tsirang Fdr.	-6.85	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.77	+	
		Unit- II	14.05	30MVA ICT, 220/66kV			
Total	14.05	Error at Station/Auxiliary Consumption/Losses	-0.12				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.44	+	Unit-I at Standby
		Unit-II	22.66	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	22.66	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	12.49	132kV KHP - Nangkhor Fdr- I	18.65	+	Unit-II under shutdown. Unit-III maintenance
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.04	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	10.54	132kV Gelephu - Salakati Fdr.	-9.60	-	
		-	-	132kV Motanga - Rangia Fdr.	3.81	+	
		-	-	220kV Tsirang - Jigmeling	13.15		
		Total	23.03	Error at Station/Auxiliary Consumption/Losses	1.04		

Note: Load summary on January 07, 2020 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	282.37	276.29	270.70	-7.07	5.59
2	Eastern Grid	135.39	42.30	40.93	106.24	1.37
	Total	417.76	318.59	311.63	99.17	6.96

Note: Load Summary on January 07, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	*	*	N.A
2	Eastern Grid	*	*	N.A
	National	#VALUE!	#VALUE!	#VALUE!

NOTES:Eastern Data 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.