

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 29, 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	90.19	400kV THP - Siliguri Fdr- I	59.14	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown	
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	57.38	+		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00			
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	118.08	+		
		Unit- V	149.76	400kV Malbase - Siliguri	42.46	+		
		Unit- VI	0.00	-	-	-		
		Total	239.95	Error at Station/Auxiliary Consumption/Losses		5.35		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II & III under maintenance. Unit-IV under standby 400kV MHP-JLG I & 400kV MHP-JLG II under shutdown. 400kV MHP_JIG Fdr-III at Standby.	
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00	+		
		Unit-IV	105.50	400kV MHP - Jigmeling Fdr - IV	105.00			
		-	-	200MVA, 400/132kV ICT				
		-	-	(Local Load)				
		Total	105.50	Error at Station/Auxiliary Consumption/Losses		0.50		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdown. 220kV CHP-Bir I Standby	
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-6.88	-		
		Unit- III	60.00	220kV CHP - Malbase Fdr- III	52.47	+		
		Unit- IV	60.00	220kV CHP - Sementokha Fdr- IV	53.17	+		
		-	-	220kV Malbase - Birpara Fdr.	-50.69	-		
		-	-	66kV CHP - Chumdo Fdr.	17.09	+		
		-	-	66kV CHP - Gedu Fdr.	3.74	+		
		-	-	3x3MVA, 66/11kV TFR	1.92	+		
		Total	120.00	Error at Station/Auxiliary Consumption/Losses		-1.51		
3	24MW BHP (U/S)	Unit- I	7.23	220kV BHP - Sementokha Fdr.	16.52	+	U/S Unit-II under maintenace. L/S Unit-I at standby.	
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.87	+		
		Total	7.23	220kV BHP - Tsirang Fdr.	-13.84	-		
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	1.03	+		
		Unit- II	15.23	30MVA ICT, 220/66kV				
Total	15.23	Error at Station/Auxiliary Consumption/Losses		0.12				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.41	+	Unit I at Standby.	
		Unit-II	22.65	220kV Jigmeling - Dagapela Fdr.				
		-	-	5MVA, 220/33kV TFR				
		Total	22.65	Error at Station/Auxiliary Consumption/Losses		0.24		
5	60MW KHP	Unit- I	13.93	132kV KHP - Nangkhon Fdr- I	12.30	+	Unit-II under shutdown. Unit-III at standby.	
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.96	+		
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+		
		Unit- IV	13.93	132kV Gelephu - Salakati Fdr.	-23.39	-		
		-	-	132kV Motanga - Rangia Fdr.	-6.27	-		
		-	-	220kV Tsirang - Jigmeling	5.40	+		
		Total	27.86	Error at Station/Auxiliary Consumption/Losses		4.10		

Note: Load summary on December 29, 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	405.06	298.25	294.29	101.41	3.96
2	Eastern Grid	133.36	63.42	58.82	75.34	4.60
	Total	538.42	361.67	353.11	176.75	8.56

Note: Load Summary on December 29, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	290.45	290.83	319.28
2	Eastern Grid	59.00	62.44	71.32
	National	349.45	353.27	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 30, 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	89.96	400kV THP - Siliguri Fdr- I	31.48	+	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	30.43	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	93.47	+	
		Unit- V	70.86	400kV Malbase - Siliguri	15.78	+	
		Unit- VI	0.00	-	-	-	
		Total	160.82	Error at Station/Auxiliary Consumption/Losses	5.44		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00	-	Unit-II & III under maintenance. Unit-I standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG III standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00	+	
		Unit-IV	111.00	400kV MHP - Jigmeling Fdr - IV	107.00	-	
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	111.00	Error at Station/Auxiliary Consumption/Losses	4.00		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdownn. 220kV CHP-BIR I standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-14.15	-	
		Unit- III	45.00	220kV CHP - Malbase Fdr- III	40.42	+	
		Unit- IV	43.00	220kV CHP - Sementokha Fdr- IV	39.49	+	
		-	-	220kV Malbase - Birpara Fdr.	-53.34	-	
		-	-	66kV CHP - Chumdo Fdr.	14.40	+	
		-	-	66kV CHP - Gedu Fdr.	3.96	+	
		-	-	3x3MVA, 66/11kV TFR	1.35	+	
Total	88.00	Error at Station/Auxiliary Consumption/Losses	2.53				
4	24MW BHP (U/S)	Unit- I	6.99	220kV BHP - Sementokha Fdr.	20.89	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.14	+	
		Total	6.99	220kV BHP - Tsirang Fdr.	-16.73	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	14.03	30MVA ICT, 220/66kV			
Total	14.03	Error at Station/Auxiliary Consumption/Losses	-0.17				
5	126MW DHPC	Unit-I	22.85	220kV DHPC - Tsirang Fdr.	22.60	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	22.85	Error at Station/Auxiliary Consumption/Losses	0.25		
6	60MW KHP	Unit- I	11.90	132kV KHP - Nangkhor Fdr- I	11.94	+	Unit-II under shutdown. Unit- Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.59	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	10.30	132kV Gelephu - Salakati Fdr.	-19.94	-	
		-	-	132kV Motanga - Rangia Fdr.	-8.69	-	
		-	-	220kV Tsirang - Jigmeling	3.91	+	
		Total	22.20	Error at Station/Auxiliary Consumption/Losses	0.27		

Note: Load summary on December 30, 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	292.69	278.58	270.53	10.20	8.05
2	Eastern Grid	133.20	58.74	54.47	78.37	4.27
	Total	425.89	337.32	325.00	88.57	12.32

Note: Load Summary on December 30, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	263.01	290.65	319.28
2	Eastern Grid	46.23	62.66	71.32
	National	309.24	353.31	390.60

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