

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 24, 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	137.79	400kV THP - Siliguri Fdr- I	68.63	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	66.36	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	138.66	+	
		Unit- V	139.51	400kV Malbase - Siliguri	46.00	+	
		Unit- VI	0.00	-	-	-	
		Total	277.30	Error at Station/Auxiliary Consumption/Losses	3.65		
2	720MW MHP	Unit-I	115.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II & III under maintenance. Unit-IV under standby 400kV MHP-JLG I under breakdown. 400kV MHP_JIG Fdr-IV at Standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	56.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	56.00	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	115.00	Error at Station/Auxiliary Consumption/Losses	3.00		
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	2.68	+	
		Unit- III	67.63	220kV CHP - Malbase Fdr- III	54.01	+	
		Unit- IV	67.57	220kV CHP - Sementokha Fdr- IV	55.11	+	
		-	-	220kV Malbase - Birpara Fdr.	-39.00	-	
		-	-	66kV CHP - Chumdo Fdr.	15.79	+	
		-	-	66kV CHP - Gedu Fdr.	3.58	+	
		-	-	3x3MVA, 66/11kV TFR	1.80	+	
		Total	135.20	Error at Station/Auxiliary Consumption/Losses	2.23		
3	24MW BHP (U/S)	Unit- I	7.68	220kV BHP - Sementokha Fdr.	12.26	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.27	+	
		Total	7.68	220kV BHP - Tsirang Fdr.	-8.41	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.87	+	
		Unit- II	15.55	30MVA ICT, 220/66kV			
Total	15.55	Error at Station/Auxiliary Consumption/Losses	0.24				
4	126MW DHPC	Unit-I	23.27	220kV DHPC - Tsirang Fdr.	23.05	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	23.27	Error at Station/Auxiliary Consumption/Losses	0.22		
5	60MW KHP	Unit- I	12.55	132kV KHP - Nangkhor Fdr- I	14.15	+	Unit-II under shutdown. Unit-III at standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.55	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	11.06	132kV Gelephu - Salakati Fdr.	-19.94	-	
		-	-	132kV Motanga - Rangia Fdr.	-1.76	-	
		-	-	220kV Tsirang - Jigmeling	11.48	+	
		Total	23.61	Error at Station/Auxiliary Consumption/Losses	0.31		

Note: Load summary on December 24, 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	459.00	302.85	296.51	144.67	6.34
2	Eastern Grid	138.61	59.79	56.48	90.30	3.31
	Total	597.61	362.64	352.99	234.97	9.65

Note: Load Summary on December 24, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	294.37	294.64	319.28
2	Eastern Grid	61.89	64.89	71.32
	National	356.26	359.53	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 25, 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	120.00	400kV THP - Siliguri Fdr- I	40.00	+	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	39.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	102.00	+	
		Unit- V	70.00	400kV Malbase - Siliguri	22.00	+	
		Unit- VI	0.00	-	-	-	
		Total	190.00	Error at Station/Auxiliary Consumption/Losses	9.00		
2	720MW MHP	Unit-I	123.37	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & IV under maintenance. Unit-II standby 400kV MHP-JLG I under breakdown. 400kV MHP-JLG IV at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	60.40	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	60.40	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	123.37	Error at Station/Auxiliary Consumption/Losses	2.57		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdown. 220kV CHP-BIR I at standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-6.85	-	
		Unit- III	46.03	220kV CHP - Malbase Fdr- III	42.23	+	
		Unit- IV	44.78	220kV CHP - Sementokha Fdr- IV	36.62	+	
		-	-	220kV Malbase - Birpara Fdr.	-44.00	-	
		-	-	66kV CHP - Chumdo Fdr.	13.20	+	
		-	-	66kV CHP - Gedu Fdr.	3.30	+	
		-	-	3x3MVA, 66/11kV TFR	1.50	+	
		Total	90.81	Error at Station/Auxiliary Consumption/Losses	0.81		
4	24MW BHP (U/S)	Unit- I	7.80	220kV BHP - Sementokha Fdr.	19.31	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.80	+	
		Total	7.80	220kV BHP - Tsirang Fdr.	-13.20	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	15.40	30MVA ICT, 220/66kV			
Total	15.40	Error at Station/Auxiliary Consumption/Losses	0.31				
5	126MW DHPC	Unit-I	14.15	220kV DHPC - Tsirang Fdr.	23.93	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	14.15	Error at Station/Auxiliary Consumption/Losses	-9.78		
6	60MW KHP	Unit- I	12.50	132kV KHP - Nangkhor Fdr- I	17.01	+	Unit-II under shutdown. Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.03	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.12	+	
		Unit- IV	11.00	132kV Gelephu - Salakati Fdr.	-18.20	-	
		-	-	132kV Motanga - Rangia Fdr.	-8.15	-	
		-	-	220kV Tsirang - Jigmeling	5.96	+	
		Total	23.50	Error at Station/Auxiliary Consumption/Losses	0.34		

Note: Load summary on December 25, 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	318.16	262.05	261.71	50.15	0.34
2	Eastern Grid	146.87	58.38	55.47	94.45	2.91
	Total	465.03	320.43	317.18	144.60	3.25

Note: Load Summary on December 25, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	282.83	308.95	319.28
2	Eastern Grid	48.06	69.34	71.32
	National	330.89	378.29	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:
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