

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 7, 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	71.37	400kV THP - Siliguri Fdr- I	83.05	+	Unit- IV, V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	107.46	400kV THP - Siliguri Fdr- II	80.66	+	
		Unit- III	139.24	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	145.62	+	
		Unit- V	0.00	400kV Malbase - Siliguri	63.44	+	
		Unit- VI	0.00	-	-	-	
		Total	318.07	Error at Station/Auxiliary Consumption/Losses	8.74		
2	720MW MHP	Unit-I	152	400kV MHP - Jigmeling Fdr - I	0.00	-	Unit-II, III IV under maintenance. MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	149.10	+	
		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	152.00	Error at Station/Auxiliary Consumption/Losses	2.90		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	5.00	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	5.05	+	
		Unit- III	73.22	220kV CHP - Malbase Fdr- III	63.00	+	
		Unit- IV	62.14	220kV CHP - Sementokha Fdr- IV	39.57	+	
		-	-	220kV Malbase - Birpara Fdr.	-39.62	-	
		-	-	66kV CHP - Chumdo Fdr.	14.93	+	
		-	-	66kV CHP - Gedu Fdr.	4.76	+	
		-	-	3x3MVA, 66/11kV TFR	1.92	+	
		Total	135.36	Error at Station/Auxiliary Consumption/Losses	1.13		
3	24MW BHP (U/S)	Unit- I	8.93	220kV BHP - Sementokha Fdr.	20.83	+	U/S Unit-II under maintenance. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.40	+	
		Total	8.93	220kV BHP - Tsirang Fdr.	-12.01	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.87	+	
		Unit- II	18.12	30MVA ICT, 220/66kV			
Total	18.12	Error at Station/Auxiliary Consumption/Losses	0.04				
4	126MW DHPC	Unit-I	27.23	220kV DHPC - Tsirang Fdr.	26.99	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	27.23	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhoh Fdr- I	22.74	+	Unit-II under shutdown. Unit-IV at standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.63	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-21.23	-	
		-	-	132kV Motanga - Rangia Fdr.	-16.11	-	
		-	-	220kV Tsirang - Jigmeling	11.82	+	
		Total	33.00	Error at Station/Auxiliary Consumption/Losses	0.33		

Note: Load summary on December 07, 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	507.71	298.31	288.24	197.58	10.07
2	Eastern Grid	185.00	85.06	81.83	111.76	3.23
	Total	692.71	383.37	370.07	309.34	13.30

Note: Load Summary on December 07, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	285.63	285.63	319.28
2	Eastern Grid	58.32	59.91	71.32
	National	343.95	345.54	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 8, 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	67.48	400kV THP - Siliguri Fdr- I	50.42	+	Unit- II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	50.31	+	
		Unit- III	137.90	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	100.87	+	
		Unit- V	0.00	400kV Malbase - Siliguri	36.29	+	
		Unit- VI	0.00	-	-	-	
		Total	205.38	Error at Station/Auxiliary Consumption/Losses	3.78		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit- I, II & III under maintenance. 400kV MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	134.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	135.26	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		Total	135.26	Error at Station/Auxiliary Consumption/Losses	1.26		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	3.20	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	3.20	+	
		Unit- III	54.00	220kV CHP - Malbase Fdr- III	58.60	+	
		Unit- IV	54.00	220kV CHP - Sementokha Fdr- IV	21.90	+	
		-	-	220kV Malbase - Birpara Fdr.	-42.13	-	
		-	-	66kV CHP - Chumdo Fdr.	11.98	+	
		-	-	66kV CHP - Gedu Fdr.	4.05	+	
		-	-	3x3MVA, 66/11kV TFR	1.36	+	
		Total	108.00	Error at Station/Auxiliary Consumption/Losses	3.71		
4	24MW BHP (U/S)	Unit- I	8.79	220kV BHP - Sementokha Fdr.	26.22	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	13.87	+	
		Total	8.79	220kV BHP - Tsirang Fdr.	-14.00	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.54	+	
		Unit- II	17.40	30MVA ICT, 220/66kV			
Total	17.40	Error at Station/Auxiliary Consumption/Losses	-0.44				
5	126MW DHPC	Unit-I	26.82	220kV DHPC - Tsirang Fdr.	26.00	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	26.82	Error at Station/Auxiliary Consumption/Losses	0.82		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	8.43	+	Unit-II under shutdown. Unit-I Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.58	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	15.82	132kV Gelephu - Salakati Fdr.	-16.25	-	
		-	-	132kV Motanga - Rangia Fdr.	-24.60	-	
		-	-	220kV Tsirang - Jigmeling	9.98	+	
		Total	15.82	Error at Station/Auxiliary Consumption/Losses	0.61		

Note: Load summary on December 08, 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	366.39	255.12	247.25	101.29	7.87
2	Eastern Grid	151.08	67.91	66.04	93.15	1.87
	Total	517.47	323.03	313.29	194.44	9.74

Note: Load Summary on December 08, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	258.22	283.65	319.28
2	Eastern Grid	48.24	61.32	71.32
	National	306.46	344.97	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.
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