

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 13, 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	69.45	400kV THP - Siliguri Fdr- I	69.34	+	Unit-III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	128.36	400kV THP - Siliguri Fdr- II	69.79	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.94	400kV THP - Malbase Fdr- III	125.52	+	
		Unit- V	0.00	400kV Malbase - Siliguri	51.51	+	
		Unit- VI	0.00	-	-	-	
		Total	268.75	Error at Station/Auxiliary Consumption/Losses	4.10		
2	720MW MHP	Unit-I	149.5	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	148.64	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	149.50	Error at Station/Auxiliary Consumption/Losses	0.86		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	2.98	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.87	+	
		Unit- III	67.47	220kV CHP - Malbase Fdr- III	51.61	+	
		Unit- IV	67.20	220kV CHP - Sementokha Fdr- IV	52.66	+	
		-	-	220kV Malbase - Birpara Fdr.	-33.15	-	
		-	-	66kV CHP - Chumdo Fdr.	16.41	+	
		-	-	66kV CHP - Gedu Fdr.	4.28	+	
		-	-	3x3MVA, 66/11kV TFR	1.93	+	
		Total	134.67	Error at Station/Auxiliary Consumption/Losses	1.93		
3	24MW BHP (U/S)	Unit- I	8.59	220kV BHP - Sementokha Fdr.	15.63	+	U/S Unit-II under maintenance. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.67	+	
		Total	8.59	220kV BHP - Tsirang Fdr.	-9.05	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.83	+	
		Unit- II	17.39	30MVA ICT, 220/66kV			
Total	17.39	Error at Station/Auxiliary Consumption/Losses	0.10				
4	126MW DHPC	Unit-I	26.26	220kV DHPC - Tsirang Fdr.	26.01	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	26.26	Error at Station/Auxiliary Consumption/Losses	0.25		
5	60MW KHP	Unit- I	13.59	132kV KHP - Nangkhoh Fdr- I	15.40	+	Unit-IV at standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.14	+	
		Unit- III	12.44	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-13.62	-	
		-	-	132kV Motanga - Rangia Fdr.	-9.14	-	
		-	-	220kV Tsirang - Jigmeling	15.13	+	
		Total	26.03	Error at Station/Auxiliary Consumption/Losses	0.19		

Note: Load summary on December 13, 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	455.66	277.19	271.01	163.34	6.18
2	Eastern Grid	175.53	64.78	63.73	125.88	1.05
	Total	631.19	341.97	334.74	289.22	7.23

Note: Load Summary on December 13, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	296.95	296.95	319.28
2	Eastern Grid	63.75	67.31	71.32
	National	360.70	364.26	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 14, 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	70.00	400kV THP - Siliguri Fdr- I	49.00	+	Unit- III under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	48.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.83	400kV THP - Malbase Fdr- III	105.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	31.00	+	
		Unit- VI	0.00	-	-	-	
		Total	210.83	Error at Station/Auxiliary Consumption/Losses	8.83		
2	720MW MHP	Unit-I	140.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & IV under maintenance. Unit II standby 400kV MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	138.26	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	140.00	Error at Station/Auxiliary Consumption/Losses	1.74		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	1.90	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.00	+	
		Unit- III	53.23	220kV CHP - Malbase Fdr- III	57.00	+	
		Unit- IV	55.67	220kV CHP - Sementokha Fdr- IV	30.20	+	
		-	-	220kV Malbase - Birpara Fdr.	-40.00	-	
		-	-	66kV CHP - Chumdo Fdr.	13.40	+	
		-	-	66kV CHP - Gedu Fdr.	3.60	+	
		Total	108.90	Error at Station/Auxiliary Consumption/Losses	-0.80		
4	24MW BHP (U/S)	Unit- I	8.80	220kV BHP - Sementokha Fdr.	23.89	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.66	+	
		Total	8.80	220kV BHP - Tsirang Fdr.	-13.52	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	17.20	30MVA ICT, 220/66kV			
Total	17.20	Error at Station/Auxiliary Consumption/Losses	-0.93				
5	126MW DHPC	Unit-I	27.24	220kV DHPC - Tsirang Fdr.	27.02	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	27.24	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	12.58	132kV KHP - Nangkhon Fdr- I	16.83	+	Unit-II under shutdown. Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.45	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.36	132kV Gelephu - Salakati Fdr.	-13.92	-	
		-	-	132kV Motanga - Rangia Fdr.	-2.71	-	
		-	-	220kV Tsirang - Jigmeling	8.41	+	
		Total	24.94	Error at Station/Auxiliary Consumption/Losses	0.36		

Note: Load summary on December 14, 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	372.97	272.66	265.34	91.90	7.32
2	Eastern Grid	164.94	51.72	49.62	121.63	2.10
	Total	537.91	324.38	314.96	213.53	9.42

Note: Load Summary on December 14, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	248.97	266.76	319.28
2	Eastern Grid	56.71	65.95	71.32
	National	305.68	332.71	390.60

NOTES:ALL WESTERN LOADS 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.
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