

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 17, 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	70.00	400kV THP - Siliguri Fdr- I	69.00	+	Unit-III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	150.00	400kV THP - Siliguri Fdr- II	67.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	60.00	400kV THP - Malbase Fdr- III	136.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	47.00	+	
		Unit- VI	0.00	-	-	-	
		Total	280.00	Error at Station/Auxiliary Consumption/Losses	8.00		
2	720MW MHP	Unit-I	130.6	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	128.00	+	
		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	130.60	Error at Station/Auxiliary Consumption/Losses	2.60		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	6.20	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	6.20	+	
		Unit- III	71.00	220kV CHP - Malbase Fdr- III	53.80	+	
		Unit- IV	71.00	220kV CHP - Sementokha Fdr- IV	51.40	+	
		-	-	220kV Malbase - Birpara Fdr.	-31.00	-	
		-	-	66kV CHP - Chumdo Fdr.	15.70	+	
		-	-	66kV CHP - Gedu Fdr.	3.70	+	
		-	-	3x3MVA, 66/11kV TFR	1.60	+	
		Total	142.00	Error at Station/Auxiliary Consumption/Losses	3.40		
3	24MW BHP (U/S)	Unit- I	8.40	220kV BHP - Sementokha Fdr.	10.10	+	U/S Unit-II under maintenance. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.06	+	
		Total	8.40	220kV BHP - Tsirang Fdr.	-2.21	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.87	+	
		Unit- II	17.06	30MVA ICT, 220/66kV			
Total	17.06	Error at Station/Auxiliary Consumption/Losses	0.36				
4	126MW DHPC	Unit-I	24.24	220kV DHPC - Tsirang Fdr.	24.04	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	24.24	Error at Station/Auxiliary Consumption/Losses	0.20		
5	60MW KHP	Unit- I	12.52	132kV KHP - Nangkhoh Fdr- I	15.21	+	Unit-III at standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.07	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	12.40	132kV Gelephu - Salakati Fdr.	-17.72	-	
		-	-	132kV Motanga - Rangia Fdr.	-9.58	-	
		-	-	220kV Tsirang - Jigmeling	19.23	+	
		Total	24.92	Error at Station/Auxiliary Consumption/Losses	0.04		

Note: Load summary on December 17, 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	471.70	288.07	276.83	164.40	11.24
2	Eastern Grid	155.52	74.05	71.41	100.70	2.64
	Total	627.22	362.12	348.24	265.10	13.88

Note: Load Summary on December 17, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	287.13	287.13	319.28
2	Eastern Grid	67.29	67.29	71.32
	National	354.42	354.42	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.
- 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 18, 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	46.00	+	Unit- III under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	45.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.00	400kV THP - Malbase Fdr- III	112.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	25.00	+	
		Unit- VI	0.00	-	-	-	
		Total	210.00	Error at Station/Auxiliary Consumption/Losses	7.00		
2	720MW MHP	Unit-I	130.85	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	129.00	+	
		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	130.85	Error at Station/Auxiliary Consumption/Losses	1.85		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.94	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	0.94	+	
		Unit- III	50.00	220kV CHP - Malbase Fdr- III	64.00	+	
		Unit- IV	50.00	220kV CHP - Sementokha Fdr- IV	15.00	+	
		-	-	220kV Malbase - Birpara Fdr.	-45.00	-	
		-	-	66kV CHP - Chumdo Fdr.	8.60	+	
		-	-	66kV CHP - Gedu Fdr.	4.30	+	
		-	-	3x3MVA, 66/11kV TFR	1.80	+	
		Total	100.00	Error at Station/Auxiliary Consumption/Losses	4.42		
4	24MW BHP (U/S)	Unit- I	8.20	220kV BHP - Sementokha Fdr.	19.14	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.58	+	
		Total	8.20	220kV BHP - Tsirang Fdr.	-10.98	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	16.40	30MVA ICT, 220/66kV			
Total	16.40	Error at Station/Auxiliary Consumption/Losses	-0.13				
5	126MW DHPC	Unit-I	25.29	220kV DHPC - Tsirang Fdr.	25.07	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	25.29	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	12.59	132kV KHP - Nangkhor Fdr- I	17.23	+	Unit-II under shutdown. Unit-III Standby. 132kV Motanga_Rangia line under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.00	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	11.10	132kV Gelephu - Salakati Fdr.	-15.53	-	
		-	-	132kV Motanga - Rangia Fdr.	0.00		
		-	-	220kV Tsirang - Jigmeling	11.49	+	
		Total	23.69	Error at Station/Auxiliary Consumption/Losses	-0.04		

Note: Load summary on December 18, 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	359.89	275.52	264.01	72.88	11.51
2	Eastern Grid	154.54	52.56	50.75	113.47	1.81
	Total	514.43	328.08	314.76	186.35	13.32

Note: Load Summary on December 18, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	270.20	296.00	319.28
2	Eastern Grid	46.85	63.42	71.32
	National	317.05	359.42	390.60

NOTES:ALL WESTERN LOADS COLLECTED FROM SITE

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