

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 9, 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	72.50	400kV THP - Siliguri Fdr- I	46.00	+	Unit- IV, V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	69.90	400kV THP - Siliguri Fdr- II	46.00	+	
		Unit- III	60.30	400kV THP - Siliguri Fdr- IV			
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	103.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	32.00	+	
		Unit- VI	0.00	-	-	-	
		Total	202.70	Error at Station/Auxiliary Consumption/Losses	7.70		
2	720MW MHP	Unit-I	140.32	400kV MHP - Jigmeling Fdr - I			Unit-II, III IV under maintenance. MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	137.40	+	
		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	140.32	Error at Station/Auxiliary Consumption/Losses	2.92		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-0.20	-	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-0.20	-	
		Unit- III	62.00	220kV CHP - Malbase Fdr- III	56.20	+	
		Unit- IV	68.00	220kV CHP - Sementokha Fdr- IV	50.00	+	
		-	-	220kV Malbase - Birpara Fdr.	-44.00	-	
		-	-	66kV CHP - Chumdo Fdr.	16.00	+	
		-	-	66kV CHP - Gedu Fdr.	4.60	+	
		-	-	3x3MVA, 66/11kV TFR	2.01	+	
		Total	130.00	Error at Station/Auxiliary Consumption/Losses	1.59		
3	24MW BHP (U/S)	Unit- I	9.00	220kV BHP - Sementokha Fdr.	16.52	+	U/S Unit-II under maintenance. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.78	+	
		Total	9.00	220kV BHP - Tsirang Fdr.	-11.21	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.95	+	
		Unit- II	17.50	30MVA ICT, 220/66kV			
Total	17.50	Error at Station/Auxiliary Consumption/Losses	1.46				
4	126MW DHPC	Unit-I	27.25	220kV DHPC - Tsirang Fdr.	27.02	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	27.25	Error at Station/Auxiliary Consumption/Losses	0.23		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhoh Fdr- I	14.38	+	Unit-I at standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.18	+	
		Unit- III	13.68	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	11.66	132kV Gelephu - Salakati Fdr.	-25.60	-	
		-	-	132kV Motanga - Rangia Fdr.	-21.53	-	
		-	-	220kV Tsirang - Jigmeling	13.00	+	
		Total	25.34	Error at Station/Auxiliary Consumption/Losses	0.58		

Note: Load summary on December 09, 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	386.45	293.85	282.87	79.60	10.98
2	Eastern Grid	165.66	88.39	84.89	90.27	3.50
	Total	552.11	382.24	367.76	169.87	14.48

Note: Load Summary on December 09, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	274.82	276.24	319.28
2	Eastern Grid	53.06	56.40	71.32
	National	327.88	332.64	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 10, 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	47.00	+	Unit- III under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	46.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV			
		Unit- IV	70.00	400kV THP - Malbase Fdr- III	110.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	27.00	+	
		Unit- VI	0.00	-	-	-	
		Total	210.00	Error at Station/Auxiliary Consumption/Losses	7.00		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I			Unit- I, II & III under maintenance. 400kV MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	182.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	182.30	400kV MHP - Jigmeling Fdr - IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	182.30	Error at Station/Auxiliary Consumption/Losses	0.30		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	2.88	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.51	+	
		Unit- III	55.00	220kV CHP - Malbase Fdr- III	55.29	+	
		Unit- IV	56.00	220kV CHP - Sementokha Fdr- IV	31.70	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.00	-	
		-	-	66kV CHP - Chumdo Fdr.	12.70	+	
		-	-	66kV CHP - Gedu Fdr.	3.70	+	
		-	-	3x3MVA, 66/11kV TFR	1.80	+	
		Total	111.00	Error at Station/Auxiliary Consumption/Losses	0.42		
4	24MW BHP (U/S)	Unit- I	8.90	220kV BHP - Sementokha Fdr.	24.10	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.37	+	
		Total	8.90	220kV BHP - Tsirang Fdr.	-14.82	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	17.40	30MVA ICT, 220/66kV			
Total	17.40	Error at Station/Auxiliary Consumption/Losses	-0.34				
5	126MW DHPC	Unit-I	26.70	220kV DHPC - Tsirang Fdr.	26.00	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	26.70	Error at Station/Auxiliary Consumption/Losses	0.70		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhoh Fdr- I	16.57	+	Unit-II under shutdown. Unit-I Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.35	+	
		Unit- III	13.76	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	11.17	132kV Gelephu - Salakati Fdr.	-13.62	-	
		-	-	132kV Motanga - Rangia Fdr.	-16.89	-	
		-	-	220kV Tsirang - Jigmeling	8.58	+	
		Total	24.93	Error at Station/Auxiliary Consumption/Losses	0.71		

Note: Load summary on December 10, 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	374.00	278.03	270.25	87.39	7.78
2	Eastern Grid	207.23	64.32	63.31	151.49	1.01
	Total	581.23	342.35	333.56	238.88	8.79

Note: Load Summary on December 10, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	264.29	286.82	319.28
2	Eastern Grid	47.11	69.13	71.32
	National	311.40	355.95	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.