

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 10, 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	100.65	400kV THP - Siliguri Fdr- I	64.60	+	Unit-III & IV at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown	
		Unit- II	168.36	400kV THP - Siliguri Fdr- II	63.17	+		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00			
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	135.16	+		
		Unit- V	0.00	400kV Malbase - Siliguri	44.93	+		
		Unit- VI	0.00	-	-	-		
		Total	269.01	Error at Station/Auxiliary Consumption/Losses		6.08		
2	720MW MHP	Unit-I	134.77	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	132.40	+		
		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	134.77	Error at Station/Auxiliary Consumption/Losses		2.37		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	9.72	+	Unit-I & II under shutdown.	
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	9.45	+		
		Unit- III	66.80	220kV CHP - Malbase Fdr- III	40.48	+		
		Unit- IV	73.68	220kV CHP - Sementokha Fdr- IV	55.20	+		
		-	-	220kV Malbase - Birpara Fdr.	-14.79	-		
		-	-	66kV CHP - Chumdo Fdr.	16.81	+		
		-	-	66kV CHP - Gedu Fdr.	3.94	+		
		-	-	3x3MVA, 66/11kV TFR	2.01	+		
		Total	140.48	Error at Station/Auxiliary Consumption/Losses		2.87		
		3	24MW BHP (U/S)	Unit- I	8.71	220kV BHP - Sementokha Fdr.		12.51
Unit- II	0.00			66kV BHP - Lobeysa Fdr.	18.63	+		
Total	8.71			220kV BHP - Tsirang Fdr.	-5.70	-		
40MW BHP (L/S)	Unit- I		0.00	5MVA, 66/11kV TFR	0.82	+		
	Unit- II		17.58	30MVA ICT, 220/66kV				
Total	17.58	Error at Station/Auxiliary Consumption/Losses		0.03				
4	126MW DHPC	Unit-I	26.74	220kV DHPC - Tsirang Fdr.	26.52	+	Unit II at Standby.	
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.				
		-	-	5MVA, 220/33kV TFR				
		Total	26.74	Error at Station/Auxiliary Consumption/Losses		0.22		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhoh Fdr- I	14.09	+	Unit-I at standby. Unit-II under shutdown.	
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.06	+		
		Unit- III	12.61	5MVA, 132/11kV TFR	0.20	+		
		Unit- IV	12.33	132kV Gelephu - Salakati Fdr.	-17.26	-		
		-	-	132kV Motanga - Rangia Fdr.	-17.01	-		
		-	-	220kV Tsirang - Jigmeling	17.00	+		
		Total	24.94	Error at Station/Auxiliary Consumption/Losses		0.59		

Note: Load summary on December 10, 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	462.52	268.44	259.24	177.08	9.20
2	Eastern Grid	159.71	78.58	75.62	98.13	2.96
	Total	622.23	347.02	334.86	275.21	12.16

Note: Load Summary on December 10, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	271.05	286.82	319.28
2	Eastern Grid	62.82	69.13	71.32
	National	333.87	355.95	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.

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Date:	December 11, 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	100.00	400kV THP - Siliguri Fdr- I	63.80	+	Unit- III & IV under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	140.00	400kV THP - Siliguri Fdr- II	63.80	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	110.37	+	
		Unit- V	0.00	400kV Malbase - Siliguri	49.00	+	
		Unit- VI	0.00	-	-	-	
		Total	240.00	Error at Station/Auxiliary Consumption/Losses	2.03		
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	141.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr- III			
		Unit-IV	141.82	400kV MHP - Jigmeling Fdr- IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	141.82	Error at Station/Auxiliary Consumption/Losses	0.82		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	8.40	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	8.17	+	
		Unit- III	58.64	220kV CHP - Malbase Fdr- III	70.02	+	
		Unit- IV	58.14	220kV CHP - Sementokha Fdr- IV	17.71	+	
		-	-	220kV Malbase - Birpara Fdr.	-39.61	-	
		-	-	66kV CHP - Chumdo Fdr.	10.94	+	
		-	-	66kV CHP - Gedu Fdr.	0.00	+	
		-	-	3x3MVA, 66/11kV TFR	1.80	+	
		Total	116.78	Error at Station/Auxiliary Consumption/Losses	-0.26		
4	24MW BHP (U/S)	Unit- I	9.23	220kV BHP - Sementokha Fdr.	27.56	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.13	+	
		Total	9.23	220kV BHP - Tsirang Fdr.	-13.58	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	19.06	30MVA ICT, 220/66kV			
Total	19.06	Error at Station/Auxiliary Consumption/Losses	-0.81				
5	126MW DHPC	Unit-I	29.27	220kV DHPC - Tsirang Fdr.	29.00	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	29.27	Error at Station/Auxiliary Consumption/Losses	0.27		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhon Fdr- I	16.51	+	Unit-II under shutdown. Unit-I Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.61	+	
		Unit- III	12.51	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.44	132kV Gelephu - Salakati Fdr.	-13.00	-	
		-	-	132kV Motanga - Rangia Fdr.	-11.09	-	
		-	-	220kV Tsirang - Jigmeling	15.90	+	
		Total	24.95	Error at Station/Auxiliary Consumption/Losses	0.53		

Note: Load summary on December 11, 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	414.34	244.88	243.65	153.56	1.23
2	Eastern Grid	166.77	65.76	64.41	116.91	1.35
	Total	581.11	310.64	308.06	270.47	2.58

Note: Load Summary on December 11, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	267.99	290.44	319.28
2	Eastern Grid	49.74	56.00	71.32
	National	317.73	346.44	390.60

NOTES:ALL EASTERN 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.
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