

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 11, 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	70.60	400kV THP - Siliguri Fdr- I	66.14	+	Unit-III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	149.35	400kV THP - Siliguri Fdr- II	64.77	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.79	400kV THP - Malbase Fdr- III	153.25	+	
		Unit- V	0.00	400kV Malbase - Siliguri	42.73	+	
		Unit- VI	0.00	-	-	-	
		Total	290.74	Error at Station/Auxiliary Consumption/Losses	6.58		
2	720MW MHP	Unit-I	0	400kV MHP - Jigmeling Fdr - I	0.00		Unit-I, III IV under maintenance. MHP-JLG I under breakdown.
		Unit-II	140.04	400kV MHP - Jigmeling Fdr - II	138.90	+	
		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	140.04	Error at Station/Auxiliary Consumption/Losses	1.14		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	4.82	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	4.86	+	
		Unit- III	65.95	220kV CHP - Malbase Fdr- III	47.73	+	
		Unit- IV	72.81	220kV CHP - Sementokha Fdr- IV	56.73	+	
		-	-	220kV Malbase - Birpara Fdr.	-28.23	-	
		-	-	66kV CHP - Chumdo Fdr.	16.69	+	
		-	-	66kV CHP - Gedu Fdr.	4.25	+	
		-	-	3x3MVA, 66/11kV TFR	1.95	+	
		Total	138.76	Error at Station/Auxiliary Consumption/Losses	1.73		
		3	24MW BHP (U/S)	Unit- I	8.79	220kV BHP - Sementokha Fdr.	
Unit- II	0.00			66kV BHP - Lobeysa Fdr.	17.89	+	
Total	8.79			220kV BHP - Tsirang Fdr.	-2.05	-	
40MW BHP (L/S)	Unit- I		0.00	5MVA, 66/11kV TFR	0.77	+	
	Unit- II		17.72	30MVA ICT, 220/66kV			
Total	17.72	Error at Station/Auxiliary Consumption/Losses	0.00				
4	126MW DHPC	Unit-I	27.04	220kV DHPC - Tsirang Fdr.	26.80	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	27.04	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhoh Fdr- I	13.96	+	Unit-I at standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.02	+	
		Unit- III	12.66	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.38	132kV Gelephu - Salakati Fdr.	-18.00	-	
		-	-	132kV Motanga - Rangia Fdr.	-17.67	-	
		-	-	220kV Tsirang - Jigmeling	17.00	+	
		Total	25.04	Error at Station/Auxiliary Consumption/Losses	0.76		

Note: Load summary on December 11, 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	483.05	310.96	302.41	155.09	8.55
2	Eastern Grid	165.08	78.85	76.95	103.23	1.90
	Total	648.13	389.81	379.36	258.32	10.45

Note: Load Summary on December 11, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	290.44	290.44	319.28
2	Eastern Grid	49.49	56.00	71.32
	National	339.93	346.44	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 12, 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	70.59	400kV THP - Siliguri Fdr- I	47.62	+	Unit- III under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	70.47	400kV THP - Siliguri Fdr- II	44.62	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.92	400kV THP - Malbase Fdr- III	113.98	+	
		Unit- V	0.00	400kV Malbase - Siliguri	29.32	+	
		Unit- VI	0.00	-	-	-	
		Total	211.98	Error at Station/Auxiliary Consumption/Losses	5.76		
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	140.80	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	141.00	400kV MHP - Jigmeling Fdr - IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	141.00	Error at Station/Auxiliary Consumption/Losses	0.20		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	3.68	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	3.41	+	
		Unit- III	49.53	220kV CHP - Malbase Fdr- III	52.73	+	
		Unit- IV	62.55	220kV CHP - Sementokha Fdr- IV	34.37	+	
		-	-	220kV Malbase - Birpara Fdr.	-34.17	-	
		-	-	66kV CHP - Chumdo Fdr.	12.83	+	
		-	-	66kV CHP - Gedu Fdr.	3.66	+	
		-	-	3x3MVA, 66/11kV TFR	1.39	+	
		Total	112.08	Error at Station/Auxiliary Consumption/Losses	0.01		
4	24MW BHP (U/S)	Unit- I	8.69	220kV BHP - Sementokha Fdr.	20.86	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.04	+	
		Total	8.69	220kV BHP - Tsirang Fdr.	-11.07	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.56	+	
		Unit- II	17.63	30MVA ICT, 220/66kV			
Total	17.63	Error at Station/Auxiliary Consumption/Losses	-0.07				
5	126MW DHPC	Unit-I	26.76	220kV DHPC - Tsirang Fdr.	26.48	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	26.76	Error at Station/Auxiliary Consumption/Losses	0.28		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	17.58	+	Unit-II under shutdown. Unit-I Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.18	+	
		Unit- III	12.20	5MVA, 132/11kV TFR	0.33	+	
		Unit- IV	13.58	132kV Gelephu - Salakati Fdr.	-12.00	-	
		-	-	132kV Motanga - Rangia Fdr.	-4.24	-	
		-	-	220kV Tsirang - Jigmeling	13.02	+	
		Total	25.78	Error at Station/Auxiliary Consumption/Losses	0.69		

Note: Load summary on December 12, 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	377.14	269.64	263.66	94.48	5.98
2	Eastern Grid	166.78	55.24	54.35	124.56	0.89
	Total	543.92	324.88	318.01	219.04	6.87

Note: Load Summary on December 12, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	272.02	280.03	319.28
2	Eastern Grid	45.99	62.57	71.32
	National	318.01	342.60	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.
 - The clocks of all the locations are not synchronized.
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