

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 5, 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	70.59	400kV THP - Siliguri Fdr- I	80.89	+	Unit-II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	79.37	+	
		Unit- III	150.01	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	91.27	400kV THP - Malbase Fdr- III	145.03	+	
		Unit- V	0.00	400kV Malbase - Siliguri	60.79	+	
		Unit- VI	0.00	-	-	-	
		Total	311.87	Error at Station/Auxiliary Consumption/Losses	6.58		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II & III under maintenance. Unit IV & 400kV MHP-JLG II tripped at 16:57hrs 400kV MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	0.00	Error at Station/Auxiliary Consumption/Losses	0.00		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	8.86	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	8.71	+	
		Unit- III	70.27	220kV CHP - Malbase Fdr- III	61.08	+	
		Unit- IV	74.73	220kV CHP - Sementokha Fdr- IV	45.41	+	
		-	-	220kV Malbase - Birpara Fdr.	-31.94	-	
		-	-	66kV CHP - Chumdo Fdr.	15.66	+	
		-	-	66kV CHP - Gedu Fdr.	3.66	+	
		-	-	3x3MVA, 66/11kV TFR	1.90	+	
		Total	145.00	Error at Station/Auxiliary Consumption/Losses	-0.28		
		3	24MW BHP (U/S)	Unit- I	9.08	220kV BHP - Sementokha Fdr.	
Unit- II	0.00			66kV BHP - Lobeysa Fdr.	17.05	+	
Total	9.08			220kV BHP - Tsirang Fdr.	-7.63	-	
40MW BHP (L/S)	Unit- I		0.00	5MVA, 66/11kV TFR	0.86	+	
	Unit- II		18.34	30MVA ICT, 220/66kV			
Total	18.34	Error at Station/Auxiliary Consumption/Losses	0.05				
4	126MW DHPC	Unit-I	28.76	220kV DHPC - Tsirang Fdr.	28.54	+	Unit II Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	28.76	Error at Station/Auxiliary Consumption/Losses	0.22		
5	60MW KHP	Unit- I	14.52	132kV KHP - Nangkhoh Fdr- I	20.22	+	Unit-IV standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.52	+	
		Unit- III	14.52	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-20.70	-	
		-	-	132kV Motanga - Rangia Fdr.	-12.06	-	
		-	-	220kV Tsirang - Jigmeling	18.37	+	
		Total	29.04	Error at Station/Auxiliary Consumption/Losses	0.00		

Note: Load summary on December 05, 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	513.05	288.00	281.53	206.68	6.47
2	Eastern Grid	29.04	80.17	80.17	-32.76	0.00
	Total	542.09	368.17	361.70	173.92	6.47

Note: Load Summary on December 05, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	283.28	285.17	319.28
2	Eastern Grid	67.16	71.13	71.32
	National	350.44	356.30	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 6, 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	66.05	400kV THP - Siliguri Fdr- I	47.55	+	Unit- II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	46.75	+	
		Unit- III	69.93	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	69.17	400kV THP - Malbase Fdr- III	106.98	+	
		Unit- V	0.00	400kV Malbase - Siliguri	31.49	+	
		Unit- VI	0.00	-	-	-	
		Total	205.15	Error at Station/Auxiliary Consumption/Losses	3.87		
2	720MW MHP	Unit-I	146.00	400kV MHP - Jigmeling Fdr- I	0.00		Unit-II, III & IV under maintenance. 400kV MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr- II	143.90	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr- III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr- IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		Total	146.00	Error at Station/Auxiliary Consumption/Losses	2.10		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	2.86	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.51	+	
		Unit- III	48.27	220kV CHP - Malbase Fdr- III	60.05	+	
		Unit- IV	59.87	220kV CHP - Sementokha Fdr- IV	24.95	+	
		-	-	220kV Malbase - Birpara Fdr.	-40.20	-	
		-	-	66kV CHP - Chumdo Fdr.	11.90	+	
		-	-	66kV CHP - Gedu Fdr.	3.48	+	
		-	-	3x3MVA, 66/11kV TFR	1.34	+	
		Total	108.14	Error at Station/Auxiliary Consumption/Losses	1.05		
4	24MW BHP (U/S)	Unit- I	8.96	220kV BHP - Sementokha Fdr.	26.25	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.84	+	
		Total	8.96	220kV BHP - Tsirang Fdr.	-15.00	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.58	+	
		Unit- II	17.62	30MVA ICT, 220/66kV			
Total	17.62	Error at Station/Auxiliary Consumption/Losses	-0.09				
5	126MW DHPC	Unit-I	28.25	220kV DHPC - Tsirang Fdr.	28.03	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	28.25	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	12.00	132kV KHP - Nangkhor Fdr- I	18.25	+	Unit-II under shutdown. Unit-IV Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.26	+	
		Unit- III	13.29	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-17.40	-	
		-	-	132kV Motanga - Rangia Fdr.	-10.84	-	
		-	-	220kV Tsirang - Jigmeling	11.76	+	
		Total	25.29	Error at Station/Auxiliary Consumption/Losses	0.58		

Note: Load summary on December 06, 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	368.12	265.40	260.35	90.96	5.05
2	Eastern Grid	171.29	67.39	64.71	115.66	2.68
	Total	539.41	332.79	325.06	206.62	7.73

Note: Load Summary on December 06, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	271.42	295.94	319.28
2	Eastern Grid	51.24	64.64	71.32
	National	322.66	360.58	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.
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