

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 20, 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	99.78	400kV THP - Siliguri Fdr- I	111.68	+	Unit-III at standby. Unit-IV & V under shutdown. 400kV THP_SILI II under Maintenance.
		Unit- II	120.81	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	106.63	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	162.80	+	
		Unit- V	0.00	400kV Malbase - Siliguri	92.56	+	
		Unit- VI	168.98	-	-	-	
		Total	389.57	Error at Station/Auxiliary Consumption/Losses	8.46		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	90.20	+	Unit-I & IV under Maintenance. Unit-II at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	86.50	+	
		Unit-III	178.95	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	178.95	Error at Station/Auxiliary Consumption/Losses	2.25		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	23.45	+	Unit-I & II under shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	23.31	+	
		Unit- III	85.61	220kV CHP - Malbase Fdr- III	74.76	+	
		Unit- IV	89.61	220kV CHP - Sementokha Fdr- IV	32.94	+	
		-	-	220kV Malbase - Birpara Fdr.	-18.63	-	
		-	-	66kV CHP - Chumdo Fdr.	13.85	+	
		-	-	66kV CHP - Gedu Fdr.	4.84	+	
		-	-	3x3MVA, 66/11kV TFR	1.63	+	
		Total	175.22	Error at Station/Auxiliary Consumption/Losses	0.44		
		3	24MW BHP (U/S)	Unit- I	5.55	220kV BHP - Sementokha Fdr.	
Unit- II	5.55			66kV BHP - Lobeysa Fdr.	17.20	+	
Total	11.10			220kV BHP - Tsirang Fdr.	-6.89	-	
40MW BHP (L/S)	Unit- I		11.56	5MVA, 66/11kV TFR	0.68	+	
	Unit- II		11.08	30MVA ICT, 220/66kV			
Total	22.64	Error at Station/Auxiliary Consumption/Losses	0.07				
4	126MW DHPC	Unit-I	34.88	220kV DHPC - Tsirang Fdr.	34.64	+	Unit II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	34.88	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	12.61	132kV KHP - Nangkhor Fdr- I	28.26	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.27	+	
		Unit- III	12.60	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	10.15	132kV Gelephu - Salakati Fdr.	-7.55	-	
		-	-	132kV Motanga - Rangia Fdr.	10.50	+	
		-	-	220kV Tsirang - Jigmeling	24.83	+	
		Total	35.36	Error at Station/Auxiliary Consumption/Losses	-0.67		

Note: Load summary on November 20, 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	633.41	269.58	260.51	339.00	9.07
2	Eastern Grid	214.31	59.49	57.91	179.65	1.58
	Total	847.72	329.07	318.42	518.65	10.65

Note: Load Summary on November 20, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	284.42	284.42	281.60
2	Eastern Grid	45.20	48.32	62.24
	National	329.62	332.74	343.84

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:	November 21, 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	100.03	400kV THP - Siliguri Fdr- I	81.44	+	Unit-III at standby. Unit-IV & V under shutdown. 400kV THP_SILI-II under Maintenance.
		Unit- II	97.99	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	77.25	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	114.66	+	
		Unit- V	0.00	400kV Malbase - Siliguri	70.03	+	
		Unit- VI	80.95	-	-	-	
		Total	278.97	Error at Station/Auxiliary Consumption/Losses	5.62		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	88.70	+	Unit-I & IV under Maintenance. Unit-II at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	88.70	+	
		Unit-III	180.02	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	180.02	Error at Station/Auxiliary Consumption/Losses	2.62		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	20.23	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	20.16	+	
		Unit- III	75.57	220kV CHP - Malbase Fdr- III	88.46	+	
		Unit- IV	69.53	220kV CHP - Sementokha Fdr- IV	1.47	-	
		-	-	220kV Malbase - Birpara Fdr.	-34.40	-	
		-	-	66kV CHP - Chumdo Fdr.	8.57	+	
		-	-	66kV CHP - Gedu Fdr.	5.40	+	
		-	-	3x3MVA, 66/11kV TFR	0.95	+	
		Total	145.10	Error at Station/Auxiliary Consumption/Losses	-0.14		
4	24MW BHP (U/S)	Unit- I	5.50	220kV BHP - Sementokha Fdr.	40.59	+	
		Unit- II	5.50	66kV BHP - Lobeysa Fdr.	14.64	+	
		Total	11.00	220kV BHP - Tsirang Fdr.	-22.35	-	
	40MW BHP (L/S)	Unit- I	11.46	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	10.93	30MVA ICT, 220/66kV			
Total	22.39	Error at Station/Auxiliary Consumption/Losses	0.08				
5	126MW DHPC	Unit-I	35.40	220kV DHPC - Tsirang Fdr.	35.18	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	35.40	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	12.30	132kV KHP - Nangkhor Fdr- I	28.11	+	Unit-II under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.08	+	
		Unit- III	10.10	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	10.40	132kV Gelephu - Salakati Fdr.	-4.90	-	
		-	-	132kV Motanga - Rangia Fdr.	11.39	+	
		-	-	220kV Tsirang - Jigmeling	10.68	+	
		Total	32.80	Error at Station/Auxiliary Consumption/Losses	0.11		

Note: Load summary on November 21, 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	492.86	247.47	241.69	234.71	5.78
2	Eastern Grid	212.82	39.61	36.88	183.89	2.73
	Total	705.68	287.08	278.57	418.60	8.51

Note: Load Summary on November 21, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	266.71	266.71	293.93
2	Eastern Grid	34.03	54.81	62.30
	National	300.74	321.52	356.23

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.
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