

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 15, 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	99.58	400kV THP - Siliguri Fdr- I	110.45	+	Unit-IV & V under shutdown. Unit-III at standby. 400kV THP_SILI II under Maintenance.
		Unit- II	116.81	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	105.45	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	164.64	+	
		Unit- V	0.00	400kV Malbase - Siliguri	91.25	+	
		Unit- VI	170.08	-	-	-	
		Total	386.47	Error at Station/Auxiliary Consumption/Losses	5.93		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	93.80	+	Unit I at standby. Unit-II under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	95.30	+	
		Unit-III	86.39	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	108.34	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	194.73	Error at Station/Auxiliary Consumption/Losses	5.63		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	28.84	+	Unit-I under shutdown
		Unit- II	71.02	220kV CHP - Birpara Fdr- II	28.80	+	
		Unit- III	60.94	220kV CHP - Malbase Fdr- III	91.70	+	
		Unit- IV	60.73	220kV CHP - Sementokha Fdr- IV	23.06	+	
		-	-	220kV Malbase - Birpara Fdr.	-22.26	-	
		-	-	66kV CHP - Chumdo Fdr.	12.06	+	
		-	-	66kV CHP - Gedu Fdr.	6.66	+	
		-	-	3x3MVA, 66/11kV TFR	1.58	+	
		Total	192.69	Error at Station/Auxiliary Consumption/Losses	-0.01		
3	24MW BHP (U/S)	Unit- I	5.94	220kV BHP - Sementokha Fdr.	27.99	+	
		Unit- II	5.94	66kV BHP - Lobeysa Fdr.	16.35	+	
		Total	11.88	220kV BHP - Tsirang Fdr.	-9.21	-	
	40MW BHP (L/S)	Unit- I	12.29	5MVA, 66/11kV TFR	0.61	+	
		Unit- II	11.79	30MVA ICT, 220/66kV			
Total	24.08	Error at Station/Auxiliary Consumption/Losses	0.22				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	37.30	+	Unit I at Standby
		Unit-II	37.56	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	37.56	Error at Station/Auxiliary Consumption/Losses	0.26		
5	60MW KHP	Unit- I	12.48	132kV KHP - Nangkhor Fdr- I	27.83	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.56	+	
		Unit- III	12.66	5MVA, 132/11kV TFR	0.50		
		Unit- IV	10.18	132kV Gelephu - Salakati Fdr.	-9.64	-	
		-	-	132kV Motanga - Rangia Fdr.	7.40	+	
		-	-	220kV Tsirang - Jigmeling	25.53	+	
		Total	35.32	Error at Station/Auxiliary Consumption/Losses	0.43		

Note: Load summary on November 15, 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	652.68	284.62	278.22	342.53	6.40
2	Eastern Grid	230.05	68.72	62.66	186.86	6.06
	Total	882.73	353.34	340.88	529.39	12.46

Note: Load Summary on November 15, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	288.98	291.20	281.60
2	Eastern Grid	54.09	62.16	62.24
	National	343.07	353.36	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 16, 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	100.26	400kV THP - Siliguri Fdr- I	82.20	+	Unit-IV & V under shutdown. Unit-III at standby. 400kV THP_SILI-II under Maintenance.
		Unit- II	99.03	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	77.74	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	122.88	+	
		Unit- V	0.00	400kV Malbase - Siliguri	67.72	+	
		Unit- VI	90.65	-	-	-	
		Total	289.94	Error at Station/Auxiliary Consumption/Losses	7.12		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	91.00	+	Unit-I at standby. Unit-II under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	91.60	+	
		Unit-III	85.90	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	100.20	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		Total	186.10	Error at Station/Auxiliary Consumption/Losses	3.50		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	22.27	+	Unit-I under shutdownn.
		Unit- II	47.19	220kV CHP - Birpara Fdr- II	22.30	+	
		Unit- III	49.72	220kV CHP - Malbase Fdr- III	93.37	+	
		Unit- IV	51.19	220kV CHP - Sementokha Fdr- IV	-6.17	-	
		-	-	220kV Malbase - Birpara Fdr.	-34.16	-	
		-	-	66kV CHP - Chumdo Fdr.	8.08	+	
		-	-	66kV CHP - Gedu Fdr.	6.25	+	
		-	-	3x3MVA, 66/11kV TFR	1.04	+	
		Total	148.10	Error at Station/Auxiliary Consumption/Losses	0.96		
4	24MW BHP (U/S)	Unit- I	5.89	220kV BHP - Sementokha Fdr.	44.72	+	
		Unit- II	5.89	66kV BHP - Lobeysa Fdr.	14.55	+	
		Total	11.78	220kV BHP - Tsirang Fdr.	-24.11	-	
	40MW BHP (L/S)	Unit- I	12.10	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	11.60	30MVA ICT, 220/66kV			
		Total	23.70	Error at Station/Auxiliary Consumption/Losses	-0.05		
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	35.91	+	Unit-I Standby
		Unit-II	36.12	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	36.12	Error at Station/Auxiliary Consumption/Losses	0.21		
6	60MW KHP	Unit- I	12.61	132kV KHP - Nangkhon Fdr- I	30.50	+	Unit-II under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.97	+	
		Unit- III	12.60	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	10.15	132kV Gelephu - Salakati Fdr.	1.84	+	
		-	-	132kV Motanga - Rangia Fdr.	-8.97	-	
		-	-	220kV Tsirang - Jigmeling	9.50	+	
		Total	35.36	Error at Station/Auxiliary Consumption/Losses	0.69		

Note: Load summary on November 16, 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	509.64	271.57	263.33	238.07	8.24
2	Eastern Grid	221.46	37.02	32.83	184.44	4.19
	Total	731.10	308.59	296.16	422.51	12.43

Note: Load Summary on November 16, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	244.79	282.89	293.93
2	Eastern Grid	46.68	57.21	62.30
	National	291.47	340.10	356.23

NOTES:

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