

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 2, 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	68.10	400kV THP - Siliguri Fdr- I	88.53	+	Unit-II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	85.70	+	
		Unit- III	160.47	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	90.99	400kV THP - Malbase Fdr- III	143.63	+	
		Unit- V	0.00	400kV Malbase - Siliguri	66.62	+	
		Unit- VI	0.00	-	-	-	
		Total	319.56	Error at Station/Auxiliary Consumption/Losses	1.70		
2	720MW MHP	Unit-I	150.00	400kV MHP - Jigmeling Fdr - I	149.00	+	Unit-II, III & IV under maintenance. 400kV MHP-JLG II 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	150.00	Error at Station/Auxiliary Consumption/Losses	1.00		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	10.17	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	10.55	+	
		Unit- III	75.19	220kV CHP - Malbase Fdr- III	64.58	+	
		Unit- IV	73.21	220kV CHP - Sementokha Fdr- IV	40.98	+	
		-	-	220kV Malbase - Birpara Fdr.	-32.14	-	
		-	-	66kV CHP - Chumdo Fdr.	15.01	+	
		-	-	66kV CHP - Gedu Fdr.	5.24	+	
		-	-	3x3MVA, 66/11kV TFR	1.75	+	
		Total	148.40	Error at Station/Auxiliary Consumption/Losses	0.12		
3	24MW BHP (U/S)	Unit- I	0.00	220kV BHP - Sementokha Fdr.	21.21	+	U/S Unit-I under maintenace. L/S Unit-II standby.
		Unit- II	19.27	66kV BHP - Lobeysa Fdr.	16.00	+	
		Total	19.27	220kV BHP - Tsirang Fdr.	-10.03	-	
	40MW BHP (L/S)	Unit- I	9.58	5MVA, 66/11kV TFR	0.74	+	
		Unit- II	0.00	30MVA ICT, 220/66kV		-	
Total	9.58	Error at Station/Auxiliary Consumption/Losses	0.93				
4	126MW DHPC	Unit-I	29.27	220kV DHPC - Tsirang Fdr.	29.04	+	Unit II Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.		-	
		-	-	5MVA, 220/33kV TFR		-	
		Total	29.27	Error at Station/Auxiliary Consumption/Losses	0.23		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	21.20	+	Unit-II under shutdown . Unit-I standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.59	+	
		Unit- III	14.89	5MVA, 132/11kV TFR	0.30	-	
		Unit- IV	15.04	132kV Gelephu - Salakati Fdr.	-16.80	-	
		-	-	132kV Motanga - Rangia Fdr.	-1.60	+	
		-	-	220kV Tsirang - Jigmeling	15.70	+	
		Total	29.93	Error at Station/Auxiliary Consumption/Losses	0.84		

Note: Load summary on December 02, 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	526.08	280.95	277.97	229.43	2.98
2	Eastern Grid	179.93	65.03	63.19	130.60	1.84
	Total	706.01	345.98	341.16	360.03	4.82

Note: Load Summary on December 02, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	287.79	290.06	319.28
2	Eastern Grid	58.85	59.65	71.32
	National	346.64	349.71	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 3, 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	69.55	400kV THP - Siliguri Fdr- I	60.38	+	Unit- II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	59.80	+	
		Unit- III	69.74	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	89.77	400kV THP - Malbase Fdr- III	104.67	+	
		Unit- V	0.00	400kV Malbase - Siliguri	48.32	+	
		Unit- VI	0.00	-	-	-	
		Total	229.06	Error at Station/Auxiliary Consumption/Losses	4.21		
2	720MW MHP	Unit-I	157.91	400kV MHP - Jigmeling Fdr - I	157.90	+	Unit-II, III & IV under maintenance. 400kV MHP-JLG II 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)			
		Total	157.91	Error at Station/Auxiliary Consumption/Losses	0.01		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	8.21	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	7.98	+	
		Unit- III	62.10	220kV CHP - Malbase Fdr- III	67.79	+	
		Unit- IV	56.93	220kV CHP - Sementokha Fdr- IV	16.80	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.26	-	
		-	-	66kV CHP - Chumdo Fdr.	10.99	+	
		-	-	66kV CHP - Gedu Fdr.	5.55	+	
		-	-	3x3MVA, 66/11kV TFR	1.29	+	
Total	119.03	Error at Station/Auxiliary Consumption/Losses	0.42				
4	24MW BHP (U/S)	Unit- I	9.40	220kV BHP - Sementokha Fdr.	31.36	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.15	+	
		Total	9.40	220kV BHP - Tsirang Fdr.	-16.91	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.51	+	
		Unit- II	18.78	30MVA ICT, 220/66kV			
Total	18.78	Error at Station/Auxiliary Consumption/Losses	-0.93				
5	126MW DHPC	Unit-I	30.00	220kV DHPC - Tsirang Fdr.	29.90	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	30.00	Error at Station/Auxiliary Consumption/Losses	0.10		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhon Fdr- I	22.52	+	Unit-II under shutdown. Unit-I Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.06	+	
		Unit- III	15.01	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	13.33	132kV Gelephu - Salakati Fdr.	-14.40	-	
		-	-	132kV Motanga - Rangia Fdr.	4.06	+	
		-	-	220kV Tsirang - Jigmeling	6.00	+	
		Total	28.34	Error at Station/Auxiliary Consumption/Losses	0.46		

Note: Load summary on December 03, 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	406.27	253.84	250.04	146.43	3.80
2	Eastern Grid	186.25	44.69	44.22	147.56	0.47
	Total	592.52	298.53	294.26	293.99	4.27

Note: Load Summary on December 03, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	244.83	278.73	319.28
2	Eastern Grid	53.08	68.66	71.32
	National	297.91	347.39	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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