

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 28, 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	100.48	400kV THP - Siliguri Fdr- I	61.72	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	61.60	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	131.64	+	
		Unit- V	159.25	400kV Malbase - Siliguri	40.11	+	
		Unit- VI	0.00	-	-	-	
		Total	259.73	Error at Station/Auxiliary Consumption/Losses	4.77		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II & III under maintenance. Unit-IV under standby 400kV MHP-JLG I & 400kV MHP-JLG II under shutdown. 400kV MHP_JIG Fdr-III at Standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00	+	
		Unit-IV	105.50	400kV MHP - Jigmeling Fdr - IV	104.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	105.50	Error at Station/Auxiliary Consumption/Losses	1.50		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdown. 220kV CHP-Bir I Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-7.30	-	
		Unit- III	64.67	220kV CHP - Malbase Fdr- III	44.67	+	
		Unit- IV	64.17	220kV CHP - Sementokha Fdr- IV	60.77	+	
		-	-	220kV Malbase - Birpara Fdr.	-47.11	-	
		-	-	66kV CHP - Chumdo Fdr.	16.74	+	
		-	-	66kV CHP - Gedu Fdr.	4.57	+	
		-	-	3x3MVA, 66/11kV TFR	1.91	+	
		Total	128.84	Error at Station/Auxiliary Consumption/Losses	7.48		
3	24MW BHP (U/S)	Unit- I	7.36	220kV BHP - Sementokha Fdr.	7.71	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	19.13	+	
		Total	7.36	220kV BHP - Tsirang Fdr.	-5.52	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	14.74	30MVA ICT, 220/66kV			
Total	14.74	Error at Station/Auxiliary Consumption/Losses	0.14				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.93	+	Unit I at Standby.
		Unit-II	22.17	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	22.17	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	5.77	+	Unit-II under shutdown. Unit-I & III at standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.12	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.18	+	
		Unit- IV	15.50	132kV Gelephu - Salakati Fdr.	-21.87	-	
		-	-	132kV Motanga - Rangia Fdr.	-12.30	-	
		-	-	220kV Tsirang - Jigmeling	13.81	+	
		Total	15.50	Error at Station/Auxiliary Consumption/Losses	0.43		

Note: Load summary on December 28, 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	432.84	310.01	297.66	109.02	12.35
2	Eastern Grid	121.00	64.98	63.05	69.83	1.93
	Total	553.84	374.99	360.71	178.85	14.28

Note: Load Summary on December 28, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	305.98	305.98	319.28
2	Eastern Grid	60.46	64.48	71.32
	National	366.44	370.46	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 29, 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	89.85	400kV THP - Siliguri Fdr- I	31.08	+	Unit- III & IV at standby. Unit- II & VI under shutdown. 400kV THP_SILL-IV under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	30.29	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	95.88	+	
		Unit- V	70.41	400kV Malbase - Siliguri	15.05	+	
		Unit- VI	0.00	-	-	-	
		Total	160.26	Error at Station/Auxiliary Consumption/Losses	3.01		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00	-	Unit-II & III under maintenance. Unit-I standby. 400kV MHP-JLG I under breakdown. 400kV MHP-JLG II & IV standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	103.45	+	
		Unit-IV	105.00	400kV MHP - Jigmeling Fdr - IV	0.00	-	
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	105.00	Error at Station/Auxiliary Consumption/Losses	1.55		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdownn. 220kV CHP-BIR I standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-13.62	-	
		Unit- III	40.00	220kV CHP - Malbase Fdr- III	36.84	+	
		Unit- IV	40.00	220kV CHP - Sementokha Fdr- IV	34.60	+	
		-	-	220kV Malbase - Birpara Fdr.	-49.99	-	
		-	-	66kV CHP - Chumdo Fdr.	13.69	+	
		-	-	66kV CHP - Gedu Fdr.	3.51	+	
		-	-	3x3MVA, 66/11kV TFR	1.28	+	
Total	80.00	Error at Station/Auxiliary Consumption/Losses	3.70				
4	24MW BHP (U/S)	Unit- I	6.98	220kV BHP - Sementokha Fdr.	19.33	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.80	+	
		Total	6.98	220kV BHP - Tsirang Fdr.	-14.06	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	1.36	+	
		Unit- II	14.21	30MVA ICT, 220/66kV			
Total	14.21	Error at Station/Auxiliary Consumption/Losses	-0.24				
5	126MW DHPC	Unit-I	23.19	220kV DHPC - Tsirang Fdr.	22.94	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	23.19	Error at Station/Auxiliary Consumption/Losses	0.25		
6	60MW KHP	Unit- I	12.28	132kV KHP - Nangkhor Fdr- I	18.69	+	Unit-II under shutdown. Unit- Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.23	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.05	132kV Gelephu - Salakati Fdr.	-17.47	-	
		-	-	132kV Motanga - Rangia Fdr.	-3.89	-	
		-	-	220kV Tsirang - Jigmeling	6.94	+	
		Total	24.33	Error at Station/Auxiliary Consumption/Losses	0.11		

Note: Load summary on December 29, 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	284.64	264.89	258.17	12.81	6.72
2	Eastern Grid	129.33	54.18	52.52	82.09	1.66
	Total	413.97	319.07	310.69	94.90	8.38

Note: Load Summary on December 29, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	264.35	290.83	319.28
2	Eastern Grid	46.91	62.44	71.32
	National	311.26	353.27	390.60

NOTES: EASTERN LOAD 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.
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