

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 27, 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	100.56	400kV THP - Siliguri Fdr- I	59.57	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	57.72	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	134.31	+	
		Unit- V	158.22	400kV Malbase - Siliguri	42.00	+	
		Unit- VI	0.00	-	-	-	
		Total	258.78	Error at Station/Auxiliary Consumption/Losses	7.18		
2	720MW MHP	Unit-I	110.40	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	0.00	400kV MHP - Jigmeling Fdr - IV	109.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	110.40	Error at Station/Auxiliary Consumption/Losses	1.40		
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	-0.09	-	
		Unit- III	64.67	220kV CHP - Malbase Fdr- III	46.55	+	
		Unit- IV	64.17	220kV CHP - Sementokha Fdr- IV	57.65	+	
		-	-	220kV Malbase - Birpara Fdr.	-43.00	-	
		-	-	66kV CHP - Chumdo Fdr.	17.63	+	
		-	-	66kV CHP - Gedu Fdr.	4.56	+	
		-	-	3x3MVA, 66/11kV TFR	1.91	+	
		Total	128.84	Error at Station/Auxiliary Consumption/Losses	0.63		
3	24MW BHP (U/S)	Unit- I	7.37	220kV BHP - Sementokha Fdr.	14.14	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.81	+	
		Total	7.37	220kV BHP - Tsirang Fdr.	-11.21	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	1.02	+	
		Unit- II	15.24	30MVA ICT, 220/66kV			
Total	15.24	Error at Station/Auxiliary Consumption/Losses	0.15				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.59	+	Unit I at Standby.
		Unit-II	23.21	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	23.21	Error at Station/Auxiliary Consumption/Losses	0.62		
5	60MW KHP	Unit- I	12.06	132kV KHP - Nangkhon Fdr- I	13.83	+	Unit-II under shutdown. Unit-III at standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.93	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.18	+	
		Unit- IV	11.43	132kV Gelephu - Salakati Fdr.	-22.20	-	
		-	-	132kV Motanga - Rangia Fdr.	-3.81	-	
		-	-	220kV Tsirang - Jigmeling	8.78	+	
		Total	23.49	Error at Station/Auxiliary Consumption/Losses	0.55		

Note: Load summary on December 27, 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	433.44	308.46	300.18	116.20	8.28
2	Eastern Grid	133.89	59.68	57.73	82.99	1.95
	Total	567.33	368.14	357.91	199.19	10.23

Note: Load Summary on December 27, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	319.28	319.28	319.28
2	Eastern Grid	67.75	69.32	71.32
	National	387.03	388.60	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 28, 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	100.54	400kV THP - Siliguri Fdr- I	33.96	+	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	31.27	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	100.96	+	
		Unit- V	71.13	400kV Malbase - Siliguri	14.00	+	
		Unit- VI	0.00	-	-	-	
		Total	171.67	Error at Station/Auxiliary Consumption/Losses	5.48		
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	115.00	+	
		Unit-IV	117.00	400kV MHP - Jigmeling Fdr - IV	0.00	-	
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	117.00	Error at Station/Auxiliary Consumption/Losses	2.00		
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	-15.90	-	
		Unit- III	39.00	220kV CHP - Malbase Fdr- III	40.59	+	
		Unit- IV	40.00	220kV CHP - Sementokha Fdr- IV	34.69	+	
		-	-	220kV Malbase - Birpara Fdr.	-56.00	-	
		-	-	66kV CHP - Chumdo Fdr.	13.34	+	
		-	-	66kV CHP - Gedu Fdr.	4.69	+	
		-	-	3x3MVA, 66/11kV TFR	1.39	+	
Total	79.00	Error at Station/Auxiliary Consumption/Losses	0.20				
4	24MW BHP (U/S)	Unit- I	6.96	220kV BHP - Sementokha Fdr.	21.91	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.84	+	
		Total	6.96	220kV BHP - Tsirang Fdr.	-17.21	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.77	+	
		Unit- II	14.15	30MVA ICT, 220/66kV			
Total	14.15	Error at Station/Auxiliary Consumption/Losses	-0.20				
5	126MW DHPC	Unit-I	23.15	220kV DHPC - Tsirang Fdr.	22.92	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	23.15	Error at Station/Auxiliary Consumption/Losses	0.23		
6	60MW KHP	Unit- I	12.30	132kV KHP - Nangkhor Fdr- I	15.39	+	Unit-II under shutdown. Unit- Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.86	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	10.11	132kV Gelephu - Salakati Fdr.	-18.80	-	
		-	-	132kV Motanga - Rangia Fdr.	-7.13	-	
		-	-	220kV Tsirang - Jigmeling	3.06	+	
		Total	22.41	Error at Station/Auxiliary Consumption/Losses	0.86		

Note: Load summary on December 28, 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	294.93	284.54	278.83	7.33	5.71
2	Eastern Grid	139.41	53.40	50.54	89.07	2.86
	Total	434.34	337.94	329.37	96.40	8.57

Note: Load Summary on December 28, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	288.08	305.98	319.28
2	Eastern Grid	51.16	64.48	71.32
	National	339.24	370.46	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.
 - 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.