

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 23, 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	70.00	400kV THP - Siliguri Fdr- I	60.00	+	Unit- III at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	60.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	60.00	400kV THP - Malbase Fdr- III	132.00	+	
		Unit- V	130.00	400kV Malbase - Siliguri	36.00	+	
		Unit- VI	0.00	-	-	-	
		Total	260.00	Error at Station/Auxiliary Consumption/Losses	8.00		
2	720MW MHP	Unit-I	125.90	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II & III under maintenance.Unit-IV under standby 400kV MHP-JLG I under breakdown. 400kV MHP_JIG Fdr-IV at Standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	61.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	61.10	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	125.90	Error at Station/Auxiliary Consumption/Losses	3.70		
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	0.70	+	
		Unit- III	64.78	220kV CHP - Malbase Fdr- III	49.80	+	
		Unit- IV	65.94	220kV CHP - Sementokha Fdr- IV	58.60	+	
		-	-	220kV Malbase - Birpara Fdr.	-36.00	-	
		-	-	66kV CHP - Chumdo Fdr.	16.50	+	
		-	-	66kV CHP - Gedu Fdr.	3.80	+	
		-	-	3x3MVA, 66/11kV TFR	1.87	+	
		Total	130.72	Error at Station/Auxiliary Consumption/Losses	-0.55		
3	24MW BHP (U/S)	Unit- I	8.00	220kV BHP - Sementokha Fdr.	19.23	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.14	+	
		Total	8.00	220kV BHP - Tsirang Fdr.	-5.80	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	15.90	30MVA ICT, 220/66kV			
Total	15.90	Error at Station/Auxiliary Consumption/Losses	0.35				
4	126MW DHPC	Unit-I	24.26	220kV DHPC - Tsirang Fdr.	24.00	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	24.26	Error at Station/Auxiliary Consumption/Losses	0.26		
5	60MW KHP	Unit- I	12.05	132kV KHP - Nangkhor Fdr- I	12.93	+	Unit-II under shutdown. Unit-III at standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.60	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	10.14	132kV Gelephu - Salakati Fdr.	-18.87	-	
		-	-	132kV Motanga - Rangia Fdr.	-4.79	-	
		-	-	220kV Tsirang - Jigmeling	13.48	+	
		Total	22.19	Error at Station/Auxiliary Consumption/Losses	0.06		

Note: Load summary on December 23, 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	438.88	304.70	296.64	120.70	8.06
2	Eastern Grid	148.09	63.03	59.27	98.54	3.76
	Total	586.97	367.73	355.91	219.24	11.82

Note: Load Summary on December 23, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	305.93	305.93	319.28
2	Eastern Grid	65.31	68.00	71.32
	National	371.24	373.93	390.60

NOTES: WESTERN 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.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 24, 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	70.00	400kV THP - Siliguri Fdr- I	38.00	+	Unit- III at standby. Unit- II & VI under shutdown. 400kV THP_SILL-IV under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	37.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	60.00	400kV THP - Malbase Fdr- III	109.00	+	
		Unit- V	60.00	400kV Malbase - Siliguri	17.00	+	
		Unit- VI	0.00	-	-	-	
		Total	190.00	Error at Station/Auxiliary Consumption/Losses	6.00		
2	720MW MHP	Unit-I	125.42	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & IV under maintenance. Unit-II standby 400kV MHP-JLG I under breakdown. 400kV MHP-JLG IV at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	61.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	61.10	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	125.42	Error at Station/Auxiliary Consumption/Losses	3.22		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdownn. 220kV CHP-BIR I at standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-8.10	-	
		Unit- III	45.90	220kV CHP - Malbase Fdr- III	44.30	+	
		Unit- IV	46.60	220kV CHP - Sementokha Fdr- IV	37.40	+	
		-	-	220kV Malbase - Birpara Fdr.	-48.00	-	
		-	-	66kV CHP - Chumdo Fdr.	11.90	+	
		-	-	66kV CHP - Gedu Fdr.	3.20	+	
		-	-	3x3MVA, 66/11kV TFR	1.50	+	
Total	92.50	Error at Station/Auxiliary Consumption/Losses	2.30				
4	24MW BHP (U/S)	Unit- I	7.80	220kV BHP - Sementokha Fdr.	17.82	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.26	+	
		Total	7.80	220kV BHP - Tsirang Fdr.	-10.81	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.97	+	
		Unit- II	15.40	30MVA ICT, 220/66kV			
Total	15.40	Error at Station/Auxiliary Consumption/Losses	-1.04				
5	126MW DHPC	Unit-I	23.28	220kV DHPC - Tsirang Fdr.	23.06	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	23.28	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	12.64	132kV KHP - Nangkhor Fdr- I	17.65	+	Unit-II under shutdown. Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.47	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.12	+	
		Unit- IV	11.01	132kV Gelephu - Salakati Fdr.	-14.68	-	
		-	-	132kV Motanga - Rangia Fdr.	-8.04	-	
		-	-	220kV Tsirang - Jigmeling	10.27	+	
		Total	23.65	Error at Station/Auxiliary Consumption/Losses	0.41		

Note: Load summary on December 24, 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	328.98	282.81	275.33	35.90	7.48
2	Eastern Grid	149.07	59.86	56.23	99.48	3.63
	Total	478.05	342.67	331.56	135.38	11.11

Note: Load Summary on December 24, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	275.03	294.64	319.28
2	Eastern Grid	51.80	64.89	71.32
	National	326.83	359.53	390.60

NOTES: WESTERN 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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