

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	December 19, 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	90.00	400kV THP - Siliguri Fdr- I	64.00	+	Unit-III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	90.00	400kV THP - Siliguri Fdr- II	64.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	90.00	400kV THP - Malbase Fdr- III	133.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	40.00	+	
		Unit- VI	0.00	-	-	-	
		Total	270.00	Error at Station/Auxiliary Consumption/Losses	9.00		
2	720MW MHP	Unit-I	128.70	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II, III IV under maintenance. MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	127.30	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	128.70	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	0.62	+	
		Unit- III	66.50	220kV CHP - Malbase Fdr- III	56.19	+	
		Unit- IV	66.50	220kV CHP - Sementokha Fdr- IV	53.49	+	
		-	-	220kV Malbase - Birpara Fdr.	-44.00	-	
		-	-	66kV CHP - Chumdo Fdr.	16.20	+	
		-	-	66kV CHP - Gedu Fdr.	3.90	+	
		-	-	3x3MVA, 66/11kV TFR	1.60	+	
		Total	133.00	Error at Station/Auxiliary Consumption/Losses	1.00		
3	24MW BHP (U/S)	Unit- I	8.10	220kV BHP - Sementokha Fdr.	14.57	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.59	+	
		Total	8.10	220kV BHP - Tsirang Fdr.	-9.33	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	16.50	30MVA ICT, 220/66kV			
Total	16.50	Error at Station/Auxiliary Consumption/Losses	0.21				
4	126MW DHPC	Unit-I	25.30	220kV DHPC - Tsirang Fdr.	25.06	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	25.30	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	12.41	132kV KHP - Nangkhor Fdr- I	14.82	+	Unit-III at standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.95	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	12.16	132kV Gelephu - Salakati Fdr.	-21.78	-	
		-	-	132kV Motanga - Rangia Fdr.	-8.60	-	
		-	-	220kV Tsirang - Jigmeling	13.00	+	
		Total	24.57	Error at Station/Auxiliary Consumption/Losses	0.20		

Note: Load summary on December 19, 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	452.90	315.28	305.25	124.62	10.03
2	Eastern Grid	153.27	69.35	67.75	96.92	1.60
	Total	606.17	384.63	373.00	221.54	11.63

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	297.36	297.36	319.28
2	Eastern Grid	65.95	65.95	71.32
	National	363.31	363.31	390.60

NOTES: ALL WESTERN LOADS 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 20, 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	40.00	+	Unit- III under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	60.00	400kV THP - Siliguri Fdr- II	39.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	60.00	400kV THP - Malbase Fdr- III	104.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	22.00	+	
		Unit- VI	0.00	-	-	-	
		Total	190.00	Error at Station/Auxiliary Consumption/Losses	7.00		
2	720MW MHP	Unit-I	140.00	400kV MHP - Jigmeling Fdr- I	0.00		Unit-II, III IV under maintenance. 400kV MHP-JLG I under breakdown. 400kV MHP-JLG III standby
		Unit-II	0.00	400kV MHP - Jigmeling Fdr- II	69.81	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr- III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr- IV	70.18		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	140.00	Error at Station/Auxiliary Consumption/Losses	0.01		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdownn. 220kV CHP-BIR I under standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	1.30	+	
		Unit- III	44.00	220kV CHP - Malbase Fdr- III	51.40	+	
		Unit- IV	55.00	220kV CHP - Sementokha Fdr- IV	30.90	+	
		-	-	220kV Malbase - Birpara Fdr.	-42.00	-	
		-	-	66kV CHP - Chumdo Fdr.	12.10	+	
		-	-	66kV CHP - Gedu Fdr.	4.00	+	
		-	-	3x3MVA, 66/11kV TFR	1.90	+	
Total	99.00	Error at Station/Auxiliary Consumption/Losses	-2.60				
4	24MW BHP (U/S)	Unit- I	8.30	220kV BHP - Sementokha Fdr.	22.99	+	
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.96	+	
		Total	8.30	220kV BHP - Tsirang Fdr.	-15.38	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	16.40	30MVA ICT, 220/66kV			
		Total	16.40	Error at Station/Auxiliary Consumption/Losses	1.14		
5	126MW DHPC	Unit-I	24.70	220kV DHPC - Tsirang Fdr.	24.56	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	24.70	Error at Station/Auxiliary Consumption/Losses	0.14		
6	60MW KHP	Unit- I	12.39	132kV KHP - Nangkhor Fdr- I	17.28	+	Unit-II under shutdown. Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.66	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	12.13	132kV Gelephu - Salakati Fdr.	-14.42	-	
		-	-	132kV Motanga - Rangia Fdr.	0.00	-	
		-	-	220kV Tsirang - Jigmeling	5.17	+	
		Total	24.52	Error at Station/Auxiliary Consumption/Losses	0.18		

Note: Load summary on December 20, 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	338.40	272.93	267.25	60.30	5.68
2	Eastern Grid	164.52	44.12	43.93	125.57	0.19
	Total	502.92	317.05	311.18	185.87	5.87

Note: Load Summary on December 20, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	289.05	304.76	319.28
2	Eastern Grid	51.42	64.32	71.32
	National	340.47	369.08	390.60

NOTES:ALL WESTERN LOADS COLLECTED FROM SITE

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