

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	January 2, 2020
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	80.12	400kV THP - Siliguri Fdr- I	25.31	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	23.21	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	97.46	+	
		Unit- V	70.61	400kV Malbase - Siliguri	8.43	+	
		Unit- VI	0.00	-	-	-	
		Total	150.73	Error at Station/Auxiliary Consumption/Losses	4.75		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit- I & III under maintenance. Unit-IV under standby 400kV MHP-JLG I & 400kV MHP-JLG II under shutdown. 400kV MHP_JIG Fdr-IV at Standby.
		Unit-II	109.00	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	101.93	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	109.00	Error at Station/Auxiliary Consumption/Losses	7.07		
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	-5.46	-	
		Unit- III	55.97	220kV CHP - Malbase Fdr- III	43.65	+	
		Unit- IV	66.90	220kV CHP - Sementokha Fdr- IV	61.13	+	
		-	-	220kV Malbase - Birpara Fdr.	-42.01	-	
		-	-	66kV CHP - Chumdo Fdr.	16.70	+	
		-	-	66kV CHP - Gedu Fdr.	4.09	+	
		-	-	3x3MVA, 66/11kV TFR	1.83	+	
		Total	122.87	Error at Station/Auxiliary Consumption/Losses	0.93		
3	24MW BHP (U/S)	Unit- I	6.93	220kV BHP - Sementokha Fdr.	4.67	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.78	+	
		Total	6.93	220kV BHP - Tsirang Fdr.	-2.21	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.88	+	
		Unit- II	14.28	30MVA ICT, 220/66kV			
Total	14.28	Error at Station/Auxiliary Consumption/Losses	0.09				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.63	+	Unit I at Standby.
		Unit-II	21.85	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	21.85	Error at Station/Auxiliary Consumption/Losses	0.22		
5	60MW KHP	Unit- I	12.32	132kV KHP - Nangkhor Fdr- I	9.25	+	Unit-III Annual Maintenance. Unit IV shutdown.
		Unit-II	10.20	132kV KHP - Kilikhar Fdr- II	12.06	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-15.40	-	
		-	-	132kV Motanga - Rangia Fdr.	1.05	-	
		-	-	220kV Tsirang - Jigmeling	16.40	+	
		Total	22.52	Error at Station/Auxiliary Consumption/Losses	0.81		

Note: Load summary on January 02, 2020 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	316.66	290.78	284.79	9.48	5.99
2	Eastern Grid	131.52	60.34	52.46	87.58	7.88
	Total	448.18	351.12	337.25	97.06	13.87

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	*	*	NA
2	Eastern Grid	*	*	NA
	National	#VALUE!	#VALUE!	#VALUE!

NOTES: Eastern Data 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:	January 3, 2020
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	79.75	400kV THP - Siliguri Fdr- I	20.78	+	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	18.95	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	105.96	+	
		Unit- V	69.03	400kV Malbase - Siliguri	0.00	+	
		Unit- VI	0.00	-	-	-	
		Total	148.78	Error at Station/Auxiliary Consumption/Losses	3.09		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00	-	Unit-III & IV under maintenance. Unit-I standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG IV standby.
		Unit-II	110.00	400kV MHP - Jigmeling Fdr - II	0.00	-	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	109.00	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00	-	
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	110.00	Error at Station/Auxiliary Consumption/Losses	1.00		
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	-11.19	-	
		Unit- III	42.35	220kV CHP - Malbase Fdr- III	21.39	+	
		Unit- IV	43.40	220kV CHP - Sementokha Fdr- IV	52.83	+	
		-	-	220kV Malbase - Birpara Fdr.	-34.16	-	
		-	-	66kV CHP - Chumdo Fdr.	14.80	+	
		-	-	66kV CHP - Gedu Fdr.	3.63	+	
		-	-	3x3MVA, 66/11kV TFR	1.49	+	
Total	85.75	Error at Station/Auxiliary Consumption/Losses	2.80				
4	24MW BHP (U/S)	Unit- I	6.94	220kV BHP - Sementokha Fdr.	7.57	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.20	+	
		Total	6.94	220kV BHP - Tsirang Fdr.	-3.60	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.76	+	
		Unit- II	14.11	30MVA ICT, 220/66kV			
Total	14.11	Error at Station/Auxiliary Consumption/Losses	0.12				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.65	+	Unit-I at Standby
		Unit-II	21.86	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	21.86	Error at Station/Auxiliary Consumption/Losses	0.21		
6	60MW KHP	Unit- I	14.11	132kV KHP - Nangkhor Fdr- I	11.16	+	Unit-IV under shutdown. Unit-III maintenance
		Unit-II	14.35	132kV KHP - Kilikhar Fdr- II	10.96	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-16.19	-	
		-	-	132kV Motanga - Rangia Fdr.	-1.93	-	
		-	-	220kV Tsirang - Jigmeling	15.39	+	
		Total	28.46	Error at Station/Auxiliary Consumption/Losses	6.04		

Note: Load summary on January 03, 2020 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	277.44	267.67	261.45	-5.62	6.22
2	Eastern Grid	138.46	62.97	55.93	90.88	7.04
	Total	415.90	330.64	317.38	85.26	13.26

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	*	*	N.A
2	Eastern Grid	*	*	N.A
	National	#VALUE!	#VALUE!	#VALUE!

NOTES:Eastern Data 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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