

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	January 7, 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	90.58	400kV THP - Siliguri Fdr- I	71.85	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown 400kV THP_SILI-II on standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	163.44	+	
		Unit- V	149.78	400kV Malbase - Siliguri	46.54	+	
		Unit- VI	0.00	-	-	-	
		Total	240.36	Error at Station/Auxiliary Consumption/Losses	5.07		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit III under maintenance. Uni I & II under standby 400kV MHP-JLG I & 400kV MHP-JLG II under shutdown. 400kV MHP_JIG Fdr-IV at Standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	109.17	+	
		Unit-IV	109.36	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	109.36	Error at Station/Auxiliary Consumption/Losses	0.19		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-1.17	-	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-1.46	-	
		Unit- III	64.67	220kV CHP - Malbase Fdr- III	28.67	+	
		Unit- IV	64.17	220kV CHP - Sementokha Fdr- IV	75.72	+	
		-	-	220kV Malbase - Birpara Fdr.	-23.98	-	
		-	-	66kV CHP - Chumdo Fdr.	17.44	+	
		-	-	66kV CHP - Gedu Fdr.	4.32	+	
		-	-	3x3MVA, 66/11kV TFR	2.07	+	
		Total	128.84	Error at Station/Auxiliary Consumption/Losses	3.25		
3	24MW BHP (U/S)	Unit- I	6.99	220kV BHP - Sementokha Fdr.	-3.44	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	18.28	+	
		Total	6.99	220kV BHP - Tsirang Fdr.	5.41	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.95	+	
		Unit- II	14.37	30MVA ICT, 220/66kV			
Total	14.37	Error at Station/Auxiliary Consumption/Losses	0.16				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.43	+	Unit I at Standby.
		Unit-II	21.67	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	21.67	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	12.31	132kV KHP - Nangkhor Fdr- I	16.66	+	Unit-III & IV Annual Maintenance.
		Unit-II	10.21	132kV KHP - Kilikhar Fdr- II	4.62	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.69	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-14.40	-	
		-	-	132kV Motanga - Rangia Fdr.	1.18	+	
		-	-	220kV Tsirang - Jigmeling	23.90	+	
		Total	22.52	Error at Station/Auxiliary Consumption/Losses	0.55		

Note: Load summary on January 07, 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	412.23	296.55	287.83	91.78	8.72
2	Eastern Grid	131.88	59.83	59.09	95.95	0.74
	Total	544.11	356.38	346.92	187.73	9.46

Note: Load Summary on January 07, 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 8, 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	100.51	400kV THP - Siliguri Fdr- I	37.89	+	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	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	128.44	+	
		Unit- V	69.00	400kV Malbase - Siliguri	16.19	-	
		Unit- VI	0.00	-	-	-	
		Total	169.51	Error at Station/Auxiliary Consumption/Losses	3.18		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & I under maintenance. Unit-IV standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG IV standby.
		Unit-II	110.54	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	110.19	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	110.54	Error at Station/Auxiliary Consumption/Losses	0.35		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	-	Unit-I & II under shutdownn. 220kV MAL-BIR shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-9.53	-	
		Unit- III	41.00	220kV CHP - Malbase Fdr- III	19.77	+	
		Unit- IV	40.00	220kV CHP - Sementokha Fdr- IV	51.89	+	
		-	-	220kV Malbase - Birpara Fdr.	-30.09	-	
		-	-	66kV CHP - Chumdo Fdr.	13.56	+	
		-	-	66kV CHP - Gedu Fdr.	3.78	+	
		-	-	3x3MVA, 66/11kV TFR	1.47	+	
Total	81.00	Error at Station/Auxiliary Consumption/Losses	0.06				
4	24MW BHP (U/S)	Unit- I	6.82	220kV BHP - Sementokha Fdr.	6.91	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeyasa Fdr.	15.44	+	
		Total	6.82	220kV BHP - Tsirang Fdr.	-2.64	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	13.47	30MVA ICT, 220/66kV			
Total	13.47	Error at Station/Auxiliary Consumption/Losses	-0.10				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.42	+	Unit-I at Standby
		Unit-II	22.64	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	22.64	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	13.33	132kV KHP - Nangkhor Fdr- I	19.95	+	Unit-II under shutdown. Unit-III maintenance
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.25	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	11.05	132kV Gelephu - Salakati Fdr.	-7.60	-	
		-	-	132kV Motanga - Rangia Fdr.	7.04	+	
		-	-	220kV Tsirang - Jigmeling	19.24		
		Total	24.38	Error at Station/Auxiliary Consumption/Losses	0.88		

Note: Load summary on January 08, 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	293.44	259.74	256.38	14.46	3.36
2	Eastern Grid	134.92	44.53	43.30	109.63	1.23
	Total	428.36	304.27	299.68	124.09	4.59

Note: Load Summary on January 08, 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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