

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 18, 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	0.00	400kV THP - Siliguri Fdr- I	187.67	+	Unit-I standby. Unit III under shutdown. 400kV THP_MAL line under maintenance.
		Unit- II	119.90	400kV THP - Siliguri Fdr- II	187.51	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	182.24	+	
		Unit- IV	139.18	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	138.47	400kV Malbase - Siliguri	-57.35	-	
		Unit- VI	170.44	-	-	-	
		Total	567.99	Error at Station/Auxiliary Consumption/Losses	10.57		
2	720MW MHP	Unit-I	84.40	400kV MHP - Jigmeling Fdr - I	136.70	+	Unit-III under shutdown. Unit IV under breakdown
		Unit-II	192.70	400kV MHP - Jigmeling Fdr - II	135.30	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	277.10	Error at Station/Auxiliary Consumption/Losses	5.10		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	62.01	+	Unit-I under shutdown
		Unit- II	91.25	220kV CHP - Birpara Fdr- II	61.70	+	
		Unit- III	91.20	220kV CHP - Malbase Fdr- III	131.76	+	
		Unit- IV	91.49	220kV CHP - Semtokha Fdr- IV	-0.40	+	
		-	-	220kV Malbase - Birpara Fdr.	0.65	+	
		-	-	66kV CHP - Chumdo Fdr.	8.12	+	
		-	-	66kV CHP - Gedu Fdr.	8.42	+	
		-	-	3x3MVA, 66/11kV TFR	1.48	+	
		Total	273.94	Error at Station/Auxiliary Consumption/Losses	0.85		
3	24MW BHP (U/S)	Unit- I	10.57	220kV BHP - Semtokha Fdr.	42.76	+	
		Unit- II	10.57	66kV BHP - Lobeyasa Fdr.	19.43	+	
		Total	21.14	220kV BHP - Tsirang Fdr.	-1.95	+	
	40MW BHP (L/S)	Unit- I	20.17	5MVA, 66/11kV TFR	0.66	+	
		Unit- II	19.40	30MVA ICT, 220/66kV			
Total	39.57	Error at Station/Auxiliary Consumption/Losses	0.19				
4	126MW DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	63.04	+	
		Unit-II	33.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	63.47	Error at Station/Auxiliary Consumption/Losses	0.43		
5	60MW KHP	Unit- I	15.00	132kV KHP - Nangkhor Fdr- I	49.33	+	
		Unit-II	14.29	132kV KHP - Kilikhar Fdr- II	8.67	+	
		Unit- III	15.27	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	14.13	132kV Gelephu - Salakati Fdr.	20.65	+	
		-	-	132kV Motanga - Rangia Fdr.	33.06	+	
		-	-	220kV Tsirang - Jigmeling	58.57	+	
		Total	58.69	Error at Station/Auxiliary Consumption/Losses	0.29		

Note: Load summary on October 18, 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	966.11	283.11	271.45	624.43	11.66
2	Eastern Grid	335.79	68.65	63.26	325.71	5.39
	Total	1,301.90	351.76	334.71	950.14	17.05

Note: Load Summary on October 18, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	241.22	241.22	281.60
2	Eastern Grid	50.40	51.76	62.24
	National	291.62	292.98	343.84

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:	October 19, 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	0.00	400kV THP - Siliguri Fdr- I	189.20	+	Unit-I standby. Unit III under shutdown. 400kV THP_MAL line under maintenance.
		Unit- II	119.56	400kV THP - Siliguri Fdr- II	187.06	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	182.85	+	
		Unit- IV	139.12	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	139.06	400kV Malbase - Siliguri	-24.19	-	
		Unit- VI	170.76	-	-	-	
		Total	568.50	Error at Station/Auxiliary Consumption/Losses	9.39		
2	720MW MHP	Unit-I	84.27	400kV MHP - Jigmeling Fdr - I	139.08	+	Unit-III under shutdown. Unit IV under breakdown
		Unit-II	195.47	400kV MHP - Jigmeling Fdr - II	132.20	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	279.74	Error at Station/Auxiliary Consumption/Losses	8.46		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	66.89	+	CHP Unit-I under shutdownn.
		Unit- II	91.68	220kV CHP - Birpara Fdr- II	66.71	+	
		Unit- III	91.36	220kV CHP - Malbase Fdr- III	146.62	+	
		Unit- IV	91.62	220kV CHP - Semtokha Fdr- IV	-18.27	-	
		-	-	220kV Malbase - Birpara Fdr.	-2.24	-	
		-	-	66kV CHP - Chumdo Fdr.	4.82	+	
		-	-	66kV CHP - Gedu Fdr.	7.18	+	
		-	-	3x3MVA, 66/11kV TFR	0.94	+	
		Total	274.66	Error at Station/Auxiliary Consumption/Losses	-0.23		
4	24MW BHP (U/S)	Unit- I	10.32	220kV BHP - Semtokha Fdr.	49.02	+	
		Unit- II	10.32	66kV BHP - Lobeyasa Fdr.	16.47	+	
		Total	20.64	220kV BHP - Tsirang Fdr.	-5.73	-	
	40MW BHP (L/S)	Unit- I	20.08	5MVA, 66/11kV TFR	0.56	+	
		Unit- II	19.34	30MVA ICT, 220/66kV			
Total	39.42	Error at Station/Auxiliary Consumption/Losses	-0.26				
5	126MW DHPC	Unit-I	30.28	220kV DHPC - Tsirang Fdr.	62.21	+	
		Unit-II	32.36	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	62.64	Error at Station/Auxiliary Consumption/Losses	0.43		
6	60MW KHP	Unit- I	14.28	132kV KHP - Nangkhor Fdr- I	52.19	+	
		Unit-II	14.16	132kV KHP - Kilikhar Fdr- II	4.94	+	
		Unit- III	15.42	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	14.01	132kV Gelephu - Salakati Fdr.	29.16	+	
		-	-	132kV Motanga - Rangia Fdr.	30.70	+	
		-	-	220kV Tsirang - Jigmeling	55.45	+	
		Total	57.87	Error at Station/Auxiliary Consumption/Losses	0.54		

Note: Load summary on October 19, 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	965.86	244.13	234.80	666.28	9.33
2	Eastern Grid	337.61	61.92	52.92	331.14	9.00
	Total	1,303.47	306.05	287.72	997.42	18.33

Note: Load Summary on October 19, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	245.09	245.09	281.60
2	Eastern Grid	47.57	50.52	62.24
	National	292.66	295.61	343.84

NOTES:

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- i) 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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