

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 17, 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	201.86	+	Unit-I & III under shutdown 400kV THP_MAL line under maintenance.
		Unit- II	128.58	400kV THP - Siliguri Fdr- II	200.70	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	197.34	+	
		Unit- IV	169.83	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	169.33	400kV Malbase - Siliguri	-47.86	-	
		Unit- VI	140.48	-	-	-	
		Total	608.22	Error at Station/Auxiliary Consumption/Losses	8.32		
2	720MW MHP	Unit-I	80.50	400kV MHP - Jigmeling Fdr - I	203.33	+	Unit-III under shutdown
		Unit-II	162.20	400kV MHP - Jigmeling Fdr - II	199.58	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	161.20	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	403.90	Error at Station/Auxiliary Consumption/Losses	0.99		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	64.30	+	Unit-I under shutdown
		Unit- II	91.07	220kV CHP - Birpara Fdr- II	64.11	+	
		Unit- III	91.81	220kV CHP - Malbase Fdr- III	130.08	+	
		Unit- IV	91.52	220kV CHP - Semtokha Fdr- IV	-0.08	-	
		-	-	220kV Malbase - Birpara Fdr.	6.84	+	
		-	-	66kV CHP - Chumdo Fdr.	8.12	+	
		-	-	66kV CHP - Gedu Fdr.	7.94	+	
		-	-	3x3MVA, 66/11kV TFR	1.48	+	
		Total	274.40	Error at Station/Auxiliary Consumption/Losses	-1.55		
3	24MW BHP (U/S)	Unit- I	10.93	220kV BHP - Semtokha Fdr.	45.34	+	
		Unit- II	10.93	66kV BHP - Lobeyasa Fdr.	20.06	+	
		Total	21.86	220kV BHP - Tsirang Fdr.	-3.05	-	
	40MW BHP (L/S)	Unit- I	20.95	5MVA, 66/11kV TFR	0.66	+	
		Unit- II	20.14	30MVA ICT, 220/66kV			
Total	41.09	Error at Station/Auxiliary Consumption/Losses	0.06				
4	126MW DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	66.06	+	
		Unit-II	36.17	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	66.46	Error at Station/Auxiliary Consumption/Losses	0.40		
5	60MW KHP	Unit- I	14.98	132kV KHP - Nangkhor Fdr- I	52.62	+	
		Unit-II	15.10	132kV KHP - Kilikhar Fdr- II	8.81	+	
		Unit- III	16.18	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.01	132kV Gelephu - Salakati Fdr.	24.55	+	
		-	-	132kV Motanga - Rangia Fdr.	44.03	+	
		-	-	220kV Tsirang - Jigmeling	60.21	+	
		Total	62.27	Error at Station/Auxiliary Consumption/Losses	0.34		

Note: Load summary on October 17, 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	1,012.03	264.53	257.42	687.29	7.11
2	Eastern Grid	466.17	54.89	53.56	471.49	1.33
	Total	1,478.20	319.42	310.98	1,158.78	8.44

Note: Load Summary on October 17, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	254.25	254.25	281.60
2	Eastern Grid	44.62	47.01	62.24
	National	298.87	301.26	343.84

NOTES:

1. 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:

- 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.
- ii) The clocks of all the locations are not synchronized.

2. 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 18, 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	129.51	400kV THP - Siliguri Fdr- I	189.69	+	Unit-II & III under shutdown 400kV THP_MAL line under maintenance.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	188.13	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	183.62	+	
		Unit- IV	170.67	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	130.59	400kV Malbase - Siliguri	-19.97	-	
		Unit- VI	140.89	-	-	-	
		Total	571.66	Error at Station/Auxiliary Consumption/Losses	10.22		
2	720MW MHP	Unit-I	84.40	400kV MHP - Jigmeling Fdr - I	167.60	+	Unit- III under shutdown
		Unit-II	103.80	400kV MHP - Jigmeling Fdr - II	161.94	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	145.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	333.70	Error at Station/Auxiliary Consumption/Losses	4.16		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	69.54	+	CHP Unit-I under shutdown.
		Unit- II	92.13	220kV CHP - Birpara Fdr- II	69.74	+	
		Unit- III	91.86	220kV CHP - Malbase Fdr- III	152.38	+	
		Unit- IV	91.42	220kV CHP - Semtokha Fdr- IV	-28.73	-	
		-	-	220kV Malbase - Birpara Fdr.	-1.80	-	
		-	-	66kV CHP - Chumdo Fdr.	3.62	+	
		-	-	66kV CHP - Gedu Fdr.	7.14	+	
		-	-	3x3MVA, 66/11kV TFR	0.82	+	
		Total	275.41	Error at Station/Auxiliary Consumption/Losses	0.90		
4	24MW BHP (U/S)	Unit- I	10.85	220kV BHP - Semtokha Fdr.	54.55	+	
		Unit- II	10.85	66kV BHP - Lobeyasa Fdr.	16.31	+	
		Total	21.70	220kV BHP - Tsirang Fdr.	-8.53	-	
	40MW BHP (L/S)	Unit- I	20.94	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	20.09	30MVA ICT, 220/66kV			
		Total	41.03	Error at Station/Auxiliary Consumption/Losses	0.02		
5	126MW DHPC	Unit-I	30.28	220kV DHPC - Tsirang Fdr.	66.08	+	
		Unit-II	36.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	66.46	Error at Station/Auxiliary Consumption/Losses	0.38		
6	60MW KHP	Unit- I	15.99	132kV KHP - Nangkhor Fdr- I	58.20	+	
		Unit-II	16.15	132kV KHP - Kilikhar Fdr- II	4.44	+	
		Unit- III	15.15	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	15.91	132kV Gelephu - Salakati Fdr.	31.43	+	
		-	-	132kV Motanga - Rangia Fdr.	34.44	+	
		-	-	220kV Tsirang - Jigmeling	55.44	+	
		Total	63.20	Error at Station/Auxiliary Consumption/Losses	0.26		

Note: Load summary on October 18, 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	976.26	241.87	230.35	678.95	11.52
2	Eastern Grid	396.90	56.93	52.51	395.41	4.42
	Total	1,373.16	298.80	282.86	1,074.36	15.94

Note: Load Summary on October 18, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	224.69	241.22	281.60
2	Eastern Grid	36.07	51.76	62.24
	National	260.76	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:
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