

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 9, 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	186.84	400kV THP - Siliguri Fdr- I	326.60	+	400kV THP-SIL III under shutdown
		Unit- II	147.86	400kV THP - Siliguri Fdr- II	325.26	+	
		Unit- III	186.65	400kV THP - Siliguri Fdr- IV	315.92	+	
		Unit- IV	140.07	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	130.00	400kV Malbase - Siliguri	-40.09	-	
		Unit- VI	186.06	-	-	-	
		Total	977.48	Error at Station/Auxiliary Consumption/Losses	9.70		
2	720MW MHP	Unit-I	80.67	400kV MHP - Jigmeling Fdr - I	234.54	+	Unit-III under Shutdown,
		Unit-II	194.46	400kV MHP - Jigmeling Fdr - II	234.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	193.84	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	468.97	Error at Station/Auxiliary Consumption/Losses	0.43		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	74.38	+	Unit-I under Shutdown
		Unit- II	91.38	220kV CHP - Birpara Fdr- II	74.53	+	
		Unit- III	91.71	220kV CHP - Malbase Fdr- III	139.75	+	
		Unit- IV	91.96	220kV CHP - Semtokha Fdr- IV	-29.48	-	
		-	-	220kV Malbase - Birpara Fdr.	15.49	+	
		-	-	66kV CHP - Chumdo Fdr.	5.13	+	
		-	-	66kV CHP - Gedu Fdr.	9.55	+	
		Total	275.05	Error at Station/Auxiliary Consumption/Losses	-0.16		
3	24MW BHP (U/S)	Unit- I	11.79	220kV BHP - Semtokha Fdr.	64.66	+	
		Unit- II	11.79	66kV BHP - Lobeyasa Fdr.	19.61	+	
		Total	23.58	220kV BHP - Tsirang Fdr.	-20.24	-	
	40MW BHP (L/S)	Unit- I	20.93	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	20.10	30MVA ICT, 220/66kV			
Total	41.03	Error at Station/Auxiliary Consumption/Losses	0.12				
4	126MW DHPC	Unit-I	46.40	220kV DHPC - Tsirang Fdr.	92.00	+	
		Unit-II	46.01	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	92.41	Error at Station/Auxiliary Consumption/Losses	0.41		
5	60MW KHP	Unit- I	16.34	132kV KHP - Nangkhor Fdr- I	56.23	+	
		Unit-II	16.40	132kV KHP - Kilikhar Fdr- II	8.65	+	
		Unit- III	16.48	5MVA, 132/11kV TFR	0.80	+	
		Unit- IV	16.49	132kV Gelephu - Salakati Fdr.	37.45	+	
		-	-	132kV Motanga - Rangia Fdr.	46.10	+	
		-	-	220kV Tsirang - Jigmeling	69.42	+	
		Total	65.71	Error at Station/Auxiliary Consumption/Losses	0.03		

Note: Load summary on October 09, 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	1,409.55	248.04	238.21	1,092.09	9.83
2	Eastern Grid	534.68	52.01	51.55	552.09	0.46
	Total	1,944.23	300.05	289.76	1,644.18	10.29

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.23	235.23	281.60
2	Eastern Grid	53.88	56.26	62.24
	National	289.11	291.49	343.84

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:

- 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.

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 10, 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	138.31	400kV THP - Siliguri Fdr- I	279.16	+	400kV THP-Malbase under shutdown.
		Unit- II	150.21	400kV THP - Siliguri Fdr- II	277.23	+	
		Unit- III	140.87	400kV THP - Siliguri Fdr- IV	271.40	+	
		Unit- IV	140.70	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	132.06	400kV Malbase - Siliguri	-4.37	-	
		Unit- VI	140.29	-	-	-	
		Total	842.44	Error at Station/Auxiliary Consumption/Losses	14.65		
2	720MW MHP	Unit-I	77.00	400kV MHP - Jigmeling Fdr - I	133.00	+	Unit-II & III under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	134.64	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	193.30	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	270.30	Error at Station/Auxiliary Consumption/Losses	2.66		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	80.33	+	Unit-I under breakdown.
		Unit- II	91.57	220kV CHP - Birpara Fdr- II	80.31	+	
		Unit- III	90.91	220kV CHP - Malbase Fdr- III	152.30	+	
		Unit- IV	91.37	220kV CHP - Semtokha Fdr- IV	-51.09	-	
		-	-	220kV Malbase - Birpara Fdr.	15.13	+	
		-	-	66kV CHP - Chumdo Fdr.	1.78	+	
		-	-	66kV CHP - Gedu Fdr.	8.63	+	
		Total	273.85	Error at Station/Auxiliary Consumption/Losses	0.80		
4	24MW BHP (U/S)	Unit- I	11.77	220kV BHP - Semtokha Fdr.	75.64	+	
		Unit- II	11.77	66kV BHP - Lobeyasa Fdr.	17.17	+	
		Total	23.54	220kV BHP - Tsirang Fdr.	-27.59	-	
	40MW BHP (L/S)	Unit- I	21.00	5MVA, 66/11kV TFR	0.34	+	
		Unit- II	20.19	30MVA ICT, 220/66kV			
Total	41.19	Error at Station/Auxiliary Consumption/Losses	-0.83				
5	126MW DHPC	Unit-I	44.80	220kV DHPC - Tsirang Fdr.	88.13	+	
		Unit-II	44.20	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	89.00	Error at Station/Auxiliary Consumption/Losses	0.87		
6	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	61.13	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	4.51	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	44.89	+	
		-	-	132kV Motanga - Rangia Fdr.	46.10	+	
		-	-	220kV Tsirang - Jigmeling	57.29	+	
		Total	66.00	Error at Station/Auxiliary Consumption/Losses	-0.14		

Note: Load summary on October 10, 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	1,270.02	213.54	198.05	999.19	15.49
2	Eastern Grid	336.30	34.96	32.44	358.63	2.52
	Total	1,606.32	248.50	230.49	1,357.82	18.01

Note: Load Summary on October 10, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	216.17	247.31	281.60
2	Eastern Grid	37.50	59.64	62.24
	National	253.67	306.95	343.84

NOTES: EDC 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.
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