

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 12, 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	168.86	400kV THP - Siliguri Fdr- I	249.35	+	400kV THP-Mal III and Unit II under shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	247.68	+	
		Unit- III	170.12	400kV THP - Siliguri Fdr- IV	242.39	+	
		Unit- IV	169.90	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	100.31	400kV Malbase - Siliguri	-44.70	-	
		Unit- VI	140.48	-	-	-	
		Total	749.67	Error at Station/Auxiliary Consumption/Losses	10.25		
2	720MW MHP	Unit-I	80.51	400kV MHP - Jigmeling Fdr - I	209.87	+	Unit-III under Shutdown
		Unit-II	163.30	400kV MHP - Jigmeling Fdr - II	208.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	177.90	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	421.71	Error at Station/Auxiliary Consumption/Losses	3.84		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	74.73	+	Unit-I under Shutdown
		Unit- II	90.76	220kV CHP - Birpara Fdr- II	74.77	+	
		Unit- III	91.47	220kV CHP - Malbase Fdr- III	127.48	+	
		Unit- IV	91.48	220kV CHP - Semtokha Fdr- IV	-19.54	-	
		-	-	220kV Malbase - Birpara Fdr.	25.63	+	
		-	-	66kV CHP - Chumdo Fdr.	6.34	+	
		-	-	66kV CHP - Gedu Fdr.	7.36	+	
		Total	273.71	Error at Station/Auxiliary Consumption/Losses	1.22		
3	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	55.50	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	19.57	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-11.18	-	
	40MW BHP (L/S)	Unit- I	20.97	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	20.16	30MVA ICT, 220/66kV			
Total	41.13	Error at Station/Auxiliary Consumption/Losses	0.25				
4	126MW DHPC	Unit-I	30.31	220kV DHPC - Tsirang Fdr.	76.03	+	
		Unit-II	46.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	76.49	Error at Station/Auxiliary Consumption/Losses	0.46		
5	60MW KHP	Unit- I	16.45	132kV KHP - Nangkhor Fdr- I	56.59	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	8.77	+	
		Unit- III	16.43	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	16.48	132kV Gelephu - Salakati Fdr.	32.88	+	
		-	-	132kV Motanga - Rangia Fdr.	37.36	+	
		-	-	220kV Tsirang - Jigmeling	61.96	+	
		Total	65.86	Error at Station/Auxiliary Consumption/Losses	-0.20		

Note: Load summary on October 12, 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	1,164.64	232.83	220.65	869.85	12.18
2	Eastern Grid	487.57	61.42	57.78	488.11	3.64
	Total	1,652.21	294.25	278.43	1,357.96	15.82

Note: Load Summary on October 12, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	249.70	249.70	281.60
2	Eastern Grid	55.48	58.15	62.24
	National	305.18	307.85	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:

- 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 13, 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	169.54	400kV THP - Siliguri Fdr- I	239.19	+	400kV THP-Mal III and Unit II under shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	236.65	+	
		Unit- III	139.56	400kV THP - Siliguri Fdr- IV	231.91	+	
		Unit- IV	170.46	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	99.97	400kV Malbase - Siliguri	-4.56	-	
		Unit- VI	140.45	-	-	-	
		Total	719.98	Error at Station/Auxiliary Consumption/Losses	12.23		
2	720MW MHP	Unit-I	80.50	400kV MHP - Jigmeling Fdr - I	220.00	+	Unit- III under breakdown.
		Unit-II	181.40	400kV MHP - Jigmeling Fdr - II	221.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	180.30	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	442.20	Error at Station/Auxiliary Consumption/Losses	1.20		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	80.17	+	Unit-I under breakdown.
		Unit- II	91.53	220kV CHP - Birpara Fdr- II	80.33	+	
		Unit- III	92.31	220kV CHP - Malbase Fdr- III	143.64	+	
		Unit- IV	92.49	220kV CHP - Semtokha Fdr- IV	-38.46	-	
		-	-	220kV Malbase - Birpara Fdr.	22.34	+	
		-	-	66kV CHP - Chumdo Fdr.	2.72	+	
		-	-	66kV CHP - Gedu Fdr.	6.62	+	
		Total	276.33	Error at Station/Auxiliary Consumption/Losses	0.28		
4	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	63.50	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	16.00	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-14.87	-	
	40MW BHP (L/S)	Unit- I	20.97	5MVA, 66/11kV TFR	0.41	+	
		Unit- II	20.22	30MVA ICT, 220/66kV			
Total	41.19	Error at Station/Auxiliary Consumption/Losses	-0.25				
5	126MW DHPC	Unit-I	30.79	220kV DHPC - Tsirang Fdr.	74.55	+	
		Unit-II	44.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	74.95	Error at Station/Auxiliary Consumption/Losses	0.40		
6	60MW KHP	Unit- I	16.59	132kV KHP - Nangkhor Fdr- I	60.61	+	
		Unit-II	16.57	132kV KHP - Kilikhar Fdr- II	5.19	+	
		Unit- III	16.55	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.70	132kV Gelephu - Salakati Fdr.	41.56	+	
		-	-	132kV Motanga - Rangia Fdr.	36.13	+	
		-	-	220kV Tsirang - Jigmeling	57.18	+	
		Total	66.41	Error at Station/Auxiliary Consumption/Losses	0.11		

Note: Load summary on October 13, 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	1,136.05	192.84	180.18	886.03	12.66
2	Eastern Grid	508.61	47.10	45.79	518.69	1.31
	Total	1,644.66	239.94	225.97	1,404.72	13.97

Note: Load Summary on October 13, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	205.80	253.71	281.60
2	Eastern Grid	37.19	48.86	62.24
	National	242.99	302.57	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.
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