

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 11, 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	169.15	400kV THP - Siliguri Fdr- I	248.65	+	400kV THP-Mal III and Unit II under shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	248.48	+	
		Unit- III	131.41	400kV THP - Siliguri Fdr- IV	248.45	+	
		Unit- IV	170.36	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	139.46	400kV Malbase - Siliguri	-51.05	-	
		Unit- VI	140.69	-	-	-	
		Total	751.07	Error at Station/Auxiliary Consumption/Losses	5.49		
2	720MW MHP	Unit-I	80.00	400kV MHP - Jigmeling Fdr - I	205.64	+	Unit-III under Shutdown
		Unit-II	180.00	400kV MHP - Jigmeling Fdr - II	232.60	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	180.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	440.00	Error at Station/Auxiliary Consumption/Losses	1.76		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	74.91	+	Unit-I under Shutdown
		Unit- II	91.77	220kV CHP - Birpara Fdr- II	74.85	+	
		Unit- III	91.61	220kV CHP - Malbase Fdr- III	121.75	+	
		Unit- IV	91.38	220kV CHP - Semtokha Fdr- IV	-12.69	-	
		-	-	220kV Malbase - Birpara Fdr.	30.40	+	
		-	-	66kV CHP - Chumdo Fdr.	6.31	+	
		-	-	66kV CHP - Gedu Fdr.	7.91	+	
		Total	274.76	Error at Station/Auxiliary Consumption/Losses	0.31		
3	24MW BHP (U/S)	Unit- I	11.79	220kV BHP - Semtokha Fdr.	49.49	+	
		Unit- II	11.79	66kV BHP - Lobeyasa Fdr.	19.42	+	
		Total	23.58	220kV BHP - Tsirang Fdr.	-4.46	-	
	40MW BHP (L/S)	Unit- I	21.01	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	20.20	30MVA ICT, 220/66kV			
Total	41.21	Error at Station/Auxiliary Consumption/Losses	0.38				
4	126MW DHPC	Unit-I	30.30	220kV DHPC - Tsirang Fdr.	79.77	+	
		Unit-II	49.93	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	80.23	Error at Station/Auxiliary Consumption/Losses	0.46		
5	60MW KHP	Unit- I	16.37	132kV KHP - Nangkor Fdr- I	55.87	+	
		Unit-II	16.64	132kV KHP - Kilikhar Fdr- II	8.70	+	
		Unit- III	16.64	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.41	132kV Gelephu - Salakati Fdr.	34.18	+	
		-	-	132kV Motanga - Rangia Fdr.	44.82	+	
		-	-	220kV Tsirang - Jigmeling	71.98	+	
		Total	66.06	Error at Station/Auxiliary Consumption/Losses	1.09		

Note: Load summary on October 11, 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	1,170.85	224.18	218.30	874.69	5.88
2	Eastern Grid	506.06	60.80	57.95	517.24	2.85
	Total	1,676.91	284.98	276.25	1,391.93	8.73

Note: Load Summary on October 11, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.20	239.20	281.60
2	Eastern Grid	56.15	56.15	62.24
	National	295.35	295.35	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 12, 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	167.74	400kV THP - Siliguri Fdr- I	248.85	+	400kV THP-Mal III and Unit II under shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	246.35	+	
		Unit- III	170.08	400kV THP - Siliguri Fdr- IV	246.39	+	
		Unit- IV	169.97	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	99.51	400kV Malbase - Siliguri	-8.92	-	
		Unit- VI	140.56	-	-	-	
		Total	747.86	Error at Station/Auxiliary Consumption/Losses	6.27		
2	720MW MHP	Unit-I	80.50	400kV MHP - Jigmeling Fdr - I	233.64	+	Unit- III under breakdown.
		Unit-II	194.41	400kV MHP - Jigmeling Fdr - II	232.60	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	193.19	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	468.10	Error at Station/Auxiliary Consumption/Losses	1.86		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	79.20	+	Unit-I under breakdown.
		Unit- II	91.00	220kV CHP - Birpara Fdr- II	79.12	+	
		Unit- III	91.57	220kV CHP - Malbase Fdr- III	145.29	+	
		Unit- IV	91.82	220kV CHP - Semtokha Fdr- IV	-39.62	-	
		-	-	220kV Malbase - Birpara Fdr.	19.24	+	
		-	-	66kV CHP - Chumdo Fdr.	3.17	+	
		-	-	66kV CHP - Gedu Fdr.	6.66	+	
		Total	274.39	Error at Station/Auxiliary Consumption/Losses	-0.30		
4	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	65.96	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	17.34	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-18.69	-	
	40MW BHP (L/S)	Unit- I	21.01	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	20.16	30MVA ICT, 220/66kV			
		Total	41.17	Error at Station/Auxiliary Consumption/Losses	-0.22		
5	126MW DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	79.79	+	
		Unit-II	49.93	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	80.22	Error at Station/Auxiliary Consumption/Losses	0.43		
6	60MW KHP	Unit- I	16.51	132kV KHP - Nangkhor Fdr- I	60.23	+	
		Unit-II	16.40	132kV KHP - Kilikhar Fdr- II	5.13	+	
		Unit- III	16.36	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	16.41	132kV Gelephu - Salakati Fdr.	40.68	+	
		-	-	132kV Motanga - Rangia Fdr.	37.41	+	
		-	-	220kV Tsirang - Jigmeling	59.07	+	
		Total	65.68	Error at Station/Auxiliary Consumption/Losses	0.12		

Note: Load summary on October 12, 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	1,167.24	197.94	191.76	910.23	6.18
2	Eastern Grid	533.78	48.52	46.54	544.33	1.98
	Total	1,701.02	246.46	238.30	1,454.56	8.16

Note: Load Summary on October 12, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	217.93	249.70	281.60
2	Eastern Grid	44.72	58.15	62.24
	National	262.65	307.85	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.
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