

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 4, 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	186.92	400kV THP - Siliguri Fdr- I	310.99	+	400kV THP-SIL IV under breakdown
		Unit- II	147.21	400kV THP - Siliguri Fdr- II	310.65	+	
		Unit- III	186.47	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	149.73	400kV THP - Malbase Fdr- III	367.33	+	
		Unit- V	159.98	400kV Malbase - Siliguri	270.15	-	
		Unit- VI	159.47	-	-	-	
		Total	989.78	Error at Station/Auxiliary Consumption/Losses	0.81		
2	720MW MHP	Unit-I	82.20	400kV MHP - Jigmeling Fdr - I	235.00	+	Unit-III under Shutdown
		Unit-II	193.00	400kV MHP - Jigmeling Fdr - II	234.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.90	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	471.10	Error at Station/Auxiliary Consumption/Losses	1.60		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	88.70	+	Unit-I under Shutdown
		Unit- II	91.86	220kV CHP - Birpara Fdr- II	88.67	+	
		Unit- III	91.89	220kV CHP - Malbase Fdr- III	115.83	+	
		Unit- IV	90.48	220kV CHP - Semtokha Fdr- IV	-33.56	-	
		-	-	220kV Malbase - Birpara Fdr.	56.70	+	
		-	-	66kV CHP - Chumdo Fdr.	5.38	+	
		-	-	66kV CHP - Gedu Fdr.	7.51	+	
		-	-	3x3MVA, 66/11kV TFR	1.41	+	
		Total	274.23	Error at Station/Auxiliary Consumption/Losses	0.29		
3	24MW BHP (U/S)	Unit- I	11.78	220kV BHP - Semtokha Fdr.	69.37	+	
		Unit- II	11.78	66kV BHP - Lobeyasa Fdr.	20.29	+	
		Total	23.56	220kV BHP - Tsirang Fdr.	-24.90	-	
	40MW BHP (L/S)	Unit- I	21.00	5MVA, 66/11kV TFR	0.65	+	
		Unit- II	20.20	30MVA ICT, 220/66kV			
Total	41.20	Error at Station/Auxiliary Consumption/Losses	0.65				
4	126MW DHPC	Unit-I	63.51	220kV DHPC - Tsirang Fdr.	98.09	+	
		Unit-II	35.06	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	98.57	Error at Station/Auxiliary Consumption/Losses	0.48		
5	60MW KHP	Unit- I	16.59	132kV KHP - Nangkhor Fdr- I	56.62	+	
		Unit-II	16.56	132kV KHP - Kilikhar Fdr- II	8.81	+	
		Unit- III	16.67	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.62	132kV Gelephu - Salakati Fdr.	31.41	+	
		-	-	132kV Motanga - Rangia Fdr.	45.36	+	
		-	-	220kV Tsirang - Jigmeling	68.34	+	
		Total	66.44	Error at Station/Auxiliary Consumption/Losses	0.51		

Note: Load summary on October 04, 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	1,427.34	233.14	232.21	1,125.86	0.93
2	Eastern Grid	537.54	59.61	57.50	546.27	2.11
	Total	1,964.88	292.75	289.71	1,672.13	3.04

Note: Load Summary on October 04, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	273.50	273.50	281.60
2	Eastern Grid	55.67	55.67	62.24
	National	329.17	329.17	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 5, 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	187.15	400kV THP - Siliguri Fdr- I	317.70	+	400kV THP-SIL Fdr IV under breakdown.
		Unit- II	150.93	400kV THP - Siliguri Fdr- II	315.48	+	
		Unit- III	187.43	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	149.79	400kV THP - Malbase Fdr- III	342.32	+	
		Unit- V	158.87	400kV Malbase - Siliguri	290.12	+	
		Unit- VI	159.39	-	-	-	
		Total	993.56	Error at Station/Auxiliary Consumption/Losses	18.06		
2	720MW MHP	Unit-I	82.00	400kV MHP - Jigmeling Fdr - I	241.20	+	Unit- III under breakdown.
		Unit-II	195.00	400kV MHP - Jigmeling Fdr - II	239.90	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	472.00	Error at Station/Auxiliary Consumption/Losses	-9.10		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	87.33	+	Unit-I under breakdown.
		Unit- II	92.36	220kV CHP - Birpara Fdr- II	87.40	+	
		Unit- III	91.84	220kV CHP - Malbase Fdr- III	145.87	+	
		Unit- IV	91.75	220kV CHP - Semtokha Fdr- IV	-56.48	-	
		-	-	220kV Malbase - Birpara Fdr.	31.85	+	
		-	-	66kV CHP - Chumdo Fdr.	1.82	-	
		-	-	66kV CHP - Gedu Fdr.	8.63	+	
		Total	275.95	Error at Station/Auxiliary Consumption/Losses	0.52		
4	24MW BHP (U/S)	Unit- I	11.77	220kV BHP - Semtokha Fdr.	83.24	+	
		Unit- II	11.77	66kV BHP - Lobeyasa Fdr.	18.18	+	
		Total	23.54	220kV BHP - Tsirang Fdr.	-36.08	-	
	40MW BHP (L/S)	Unit- I	21.02	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	20.16	30MVA ICT, 220/66kV			
Total	41.18	Error at Station/Auxiliary Consumption/Losses	-1.02				
5	126MW DHPC	Unit-I	62.19	220kV DHPC - Tsirang Fdr.	91.99	+	
		Unit-II	30.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	92.33	Error at Station/Auxiliary Consumption/Losses	0.34		
6	60MW KHP	Unit- I	16.00	132kV KHP - Nangkhor Fdr- I	59.00	+	
		Unit-II	16.70	132kV KHP - Kilikhar Fdr- II	7.50	+	
		Unit- III	16.67	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	16.38	132kV Gelephu - Salakati Fdr.	35.00	+	
		-	-	132kV Motanga - Rangia Fdr.	46.00	+	
		-	-	220kV Tsirang - Jigmeling	56.00	+	
		Total	65.75	Error at Station/Auxiliary Consumption/Losses	-0.95		

Note: Load summary on October 05, 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	1,426.56	240.68	222.78	1,129.88	17.90
2	Eastern Grid	537.75	31.65	41.70	562.10	-10.05
	Total	1,964.31	272.33	264.48	1,691.98	7.85

Note: Load Summary on October 05, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	208.35	236.36	281.60
2	Eastern Grid	38.09	54.63	62.24
	National	246.44	290.99	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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