

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 5, 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	158.67	400kV THP - Siliguri Fdr- I	291.02	+	400kV THP-SIL IV under breakdown
		Unit- II	149.19	400kV THP - Siliguri Fdr- II	288.68	+	
		Unit- III	170.63	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	149.43	400kV THP - Malbase Fdr- III	353.30	+	
		Unit- V	159.59	400kV Malbase - Siliguri	257.52	-	
		Unit- VI	159.45	-	-	-	
		Total	946.96	Error at Station/Auxiliary Consumption/Losses	13.96		
2	720MW MHP	Unit-I	92.51	400kV MHP - Jigmeling Fdr - I	241.20	+	Unit-III under Shutdown
		Unit-II	193.19	400kV MHP - Jigmeling Fdr - II	239.90	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	196.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	481.70	Error at Station/Auxiliary Consumption/Losses	0.60		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	85.45	+	Unit-I under Shutdown
		Unit- II	90.79	220kV CHP - Birpara Fdr- II	85.39	+	
		Unit- III	90.75	220kV CHP - Malbase Fdr- III	119.20	+	
		Unit- IV	90.73	220kV CHP - Semtokha Fdr- IV	-32.11	-	
		-	-	220kV Malbase - Birpara Fdr.	47.75	+	
		-	-	66kV CHP - Chumdo Fdr.	5.23	+	
		-	-	66kV CHP - Gedu Fdr.	7.94	+	
		Total	272.27	Error at Station/Auxiliary Consumption/Losses	-0.13		
3	24MW BHP (U/S)	Unit- I	11.77	220kV BHP - Semtokha Fdr.	67.55	+	
		Unit- II	11.77	66kV BHP - Lobeyasa Fdr.	19.58	+	
		Total	23.54	220kV BHP - Tsirang Fdr.	-22.94	-	
	40MW BHP (L/S)	Unit- I	20.99	5MVA, 66/11kV TFR	0.71	+	
		Unit- II	20.19	30MVA ICT, 220/66kV			
Total	41.18	Error at Station/Auxiliary Consumption/Losses	0.18				
4	126MW DHPC	Unit-I	50.47	220kV DHPC - Tsirang Fdr.	94.11	+	
		Unit-II	44.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	94.47	Error at Station/Auxiliary Consumption/Losses	0.36		
5	60MW KHP	Unit- I	16.45	132kV KHP - Nangkhor Fdr- I	56.68	+	
		Unit-II	16.66	132kV KHP - Kilikhar Fdr- II	8.65	+	
		Unit- III	16.62	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.35	132kV Gelephu - Salakati Fdr.	29.97	+	
		-	-	132kV Motanga - Rangia Fdr.	46.10	+	
		-	-	220kV Tsirang - Jigmeling	67.14	+	
		Total	66.08	Error at Station/Auxiliary Consumption/Losses	0.25		

Note: Load summary on October 05, 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	1,378.42	255.47	241.46	1,055.81	14.01
2	Eastern Grid	547.78	57.75	56.90	557.17	0.85
	Total	1,926.20	313.22	298.36	1,612.98	14.86

Note: Load Summary on October 05, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	236.36	236.36	281.60
2	Eastern Grid	50.31	54.63	62.24
	National	286.67	290.99	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 6, 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	159.90	400kV THP - Siliguri Fdr- I	293.48	+	400kV THP-SIL Fdr IV under breakdown.
		Unit- II	148.33	400kV THP - Siliguri Fdr- II	289.97	+	
		Unit- III	170.33	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	149.60	400kV THP - Malbase Fdr- III	319.25	+	
		Unit- V	129.98	400kV Malbase - Siliguri	267.00	+	
		Unit- VI	159.50	-	-	-	
		Total	917.64	Error at Station/Auxiliary Consumption/Losses		14.94	
2	720MW MHP	Unit-I	82.50	400kV MHP - Jigmeling Fdr - I	235.85	+	Unit- III under breakdown.
		Unit-II	193.20	400kV MHP - Jigmeling Fdr - II	235.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	196.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	471.70	Error at Station/Auxiliary Consumption/Losses		0.85	
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	86.05	+	Unit-I under breakdown.
		Unit- II	91.94	220kV CHP - Birpara Fdr- II	86.01	+	
		Unit- III	91.81	220kV CHP - Malbase Fdr- III	143.86	+	
		Unit- IV	91.72	220kV CHP - Semtokha Fdr- IV	-51.08	-	
		-	-	220kV Malbase - Birpara Fdr.	31.16	+	
		-	-	66kV CHP - Chumdo Fdr.	2.47	-	
		-	-	66kV CHP - Gedu Fdr.	7.34	+	
		Total	275.47	Error at Station/Auxiliary Consumption/Losses		-0.19	
4	24MW BHP (U/S)	Unit- I	11.77	220kV BHP - Semtokha Fdr.	78.13	+	
		Unit- II	11.77	66kV BHP - Lobeyasa Fdr.	17.68	+	
		Total	23.54	220kV BHP - Tsirang Fdr.		-30.10	
	40MW BHP (L/S)	Unit- I	20.96	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	20.19	30MVA ICT, 220/66kV			
		Total	41.15	Error at Station/Auxiliary Consumption/Losses		-1.39	
5	126MW DHPC	Unit-I	42.33	220kV DHPC - Tsirang Fdr.	90.17	+	
		Unit-II	48.23	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	90.56	Error at Station/Auxiliary Consumption/Losses		0.39	
6	60MW KHP	Unit- I	16.36	132kV KHP - Nangkhor Fdr- I	60.12	+	
		Unit-II	16.61	132kV KHP - Kilikhar Fdr- II	8.65	+	
		Unit- III	16.33	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.31	132kV Gelephu - Salakati Fdr.	37.70	+	
		-	-	132kV Motanga - Rangia Fdr.	46.10	+	
		-	-	220kV Tsirang - Jigmeling	57.77	+	
		Total	65.61	Error at Station/Auxiliary Consumption/Losses		-3.46	

Note: Load summary on October 06, 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	1,348.36	236.92	223.17	1,053.67	13.75
2	Eastern Grid	537.31	40.43	43.04	554.65	-2.61
Total		1,885.67	277.35	266.21	1,608.32	11.14

Note: Load Summary on October 06, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.44	243.21	281.60
2	Eastern Grid	38.84	58.76	62.24
	National	250.28	301.97	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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