

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Date: May 9, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.87	400kV THP - Siliguri Fdr- I	146.37	+	Unit-IV AMP Unit-V Standby 400kV THP_SIL IV Standby
		Unit- II	140.71	400kV THP - Siliguri Fdr- II	143.89	+	
		Unit- III	121.90	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	241.35	+	
		Unit- V	0.00	400kV Malbase - Siliguri	115.18	+	
		Unit- VI	139.28				
		Total	539.76	Error At Station/Auxiliary Consumption/Losses	8.15		
2	CHP	Unit- I	88.17	220kV CHP - Birpara Fdr- I	52.74	+	Unit-III Standby
		Unit- II	81.75	220kV CHP - Birpara Fdr- II	52.59	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	84.34	+	
		Unit- IV	88.20	220kV CHP - Semtokha Fdr- IV	48.06	+	
				220kV Malbase - Birpara Fdr.	21.31	+	
				66kV CHP - Chumdo Fdr.	8.90	+	
				66kV CHP - Gedu Fdr.	6.07	+	
				3x3MVA, 66/11kV TFR	1.35	+	
		Total	258.12	Error At Station/Auxiliary Consumption/Losses	4.07		
3	BHP (U/S)	Unit- I	6.00	220kV BHP - Semtokha Fdr.	-13.62	-	Upper stage unit II & lower stage unit-I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.92	+	
		Total	6.00	220kV BHP - Tsirang Fdr.	20.22	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.69	+	
		Unit- II	12.07	30MVA ICT, 220/66kV			
		Total	12.07	Error At Station/Auxiliary Consumption/Losses	0.86		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.26	+	Unit-I Standby
		Unit-II	19.49	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	19.49	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	13.51	132kV KHP - Nangkhor Fdr- I	44.49	+	
		Unit-II	13.55	132kV KHP - Kilikhar Fdr- II	8.98	+	
		Unit- III	13.61	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.55	132kV Gelephu - Salakati Fdr.	-0.49	-	
				132kV Motanga - Rangia Fdr.	29.25	+	
				220kV Tsirang - Jigmeling	34.07	+	
		Total	54.22	Error At Station/Auxiliary Consumption/Losses	0.35		

Note: Load summary on May 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	835.44	269.29	255.98	532.08	13.31
2	Eastern Grid	54.22	59.53	59.18	28.76	0.35
	Total	889.66	328.82	315.16	560.84	13.66

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	234.47	241.47	270.60
2	Eastern Grid	52.42	54.94	62.83
	National	286.89	296.41	333.43

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.
 - 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	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Date: May 10, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks	
1	THP	Unit- I	97.87	400kV THP - Siliguri Fdr- I	111.01	+	Unit-IV AMP Unit-V Standby 400kV THP_SIL IV Standby	
		Unit- II	97.48	400kV THP - Siliguri Fdr- II	109.63	+		
		Unit- III	101.68	400kV THP - Siliguri Fdr- IV	0.00			
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	169.96	+		
		Unit- V	0.00	400kV Malbase - Siliguri	91.17	+		
		Unit- VI	99.59					
		Total	396.62	Error At Station/Auxiliary Consumption/Losses		6.02		
2	CHP	Unit- I	81.07	220kV CHP - Birpara Fdr- I	52.97	+	Unit-III Standby	
		Unit- II	84.91	220kV CHP - Birpara Fdr- II	52.89	+		
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	112.28	+		
		Unit- IV	83.13	220kV CHP - Semtokha Fdr- IV	18.24	+		
				220kV Malbase - Birpara Fdr.	0.89	+		
				66kV CHP - Chumdo Fdr.	4.56	+		
				66kV CHP - Gedu Fdr.	7.11	+		
		Total	249.11	Error At Station/Auxiliary Consumption/Losses		0.37		
3	BHP (U/S)	Unit- I	5.71	220kV BHP - Semtokha Fdr.	8.24	+	Upper stage unit II & lower stage unit-I Standby □	
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.60	+		
		Total	5.71	220kV BHP - Tsirang Fdr.		0.00		+
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR		0.46		+
		Total	11.79	Error At Station/Auxiliary Consumption/Losses		0.20		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.25	+	Unit-I standby.	
		Unit-II	19.46	220kV DHPC - Jigmeling Fdr.	0.00			
				5MVA, 220/33kV TFR		0.00		
		Total	19.46	Error At Station/Auxiliary Consumption/Losses		0.21		
5	KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	61.12	+		
		Unit-II	16.57	132kV KHP - Kilikhar Fdr- II	8.93	+		
		Unit- III	16.54	5MVA, 132/11kV TFR		0.40		+
		Unit- IV	16.34	132kV Gelephu - Salakati Fdr.	8.93	+		
				132kV Motanga - Rangia Fdr.	35.66	+		
				220kV Tsirang - Jigmeling	16.68	+		
		Total	65.77	Error At Station/Auxiliary Consumption/Losses		-4.68		

Note: Load summary on May 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	682.69	247.45	240.65	418.56	6.80
2	Eastern Grid	65.77	37.86	42.54	44.59	-4.68
Total		748.46	285.31	283.19	463.15	2.12

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	220.91	251.46	270.60
2	Eastern Grid	41.26	61.52	62.83
National		262.17	312.98	333.43

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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