

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 17, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.69	400kV THP - Siliguri Fdr- I	0.00		Unit-IV AMP Unit- V & VI Standby 400kV THP_SIL fdr I & II under breakdown
		Unit- II	129.24	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	130.58	400kV THP - Siliguri Fdr- IV	121.94	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	231.26	+	
		Unit- V	0.00	400kV Malbase - Siliguri	96.94	+	
		Unit- VI	0.00				
		Total	359.51	Error At Station/Auxiliary Consumption/Losses	6.31		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	28.92	+	Unit-I & III Standby
		Unit- II	88.62	220kV CHP - Birpara Fdr- II	28.84	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	59.53	+	
		Unit- IV	90.42	220kV CHP - Semtokha Fdr- IV	38.97	+	
				220kV Malbase - Birpara Fdr.	0.94	+	
				66kV CHP - Chumdo Fdr.	14.94	+	
				66kV CHP - Gedu Fdr.	4.27	+	
				3x3MVA, 66/11kV TFR	1.21	+	
		Total	179.04	Error At Station/Auxiliary Consumption/Losses	2.36		
3	BHP (U/S)	Unit- I	4.85	220kV BHP - Semtokha Fdr.	-7.98	-	Upper stage unit II & lower stage unit-II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.59	+	
		Total	4.85	220kV BHP - Tsirang Fdr.	13.60	+	
	BHP (L/S)	Unit- I	10.21	5MVA, 66/11kV TFR	0.71	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.21	Error At Station/Auxiliary Consumption/Losses	-0.86		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.86	+	Unit-I Standby
		Unit-II	17.07	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.07	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	13.12	132kV KHP - Nangkhor Fdr- I	41.89	+	
		Unit-II	13.02	132kV KHP - Kilikhar Fdr- II	9.70	+	
		Unit- III	13.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	12.89	132kV Gelephu - Salakati Fdr.	-4.70	-	
				132kV Motanga - Rangia Fdr.	25.33	+	
				220kV Tsirang - Jigmeling	28.68	+	
		Total	52.53	Error At Station/Auxiliary Consumption/Losses	0.44		

Note: Load summary on May 17, 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	570.68	264.42	256.40	277.58	8.02
2	Eastern Grid	52.53	60.58	60.14	20.63	0.44
	Total	623.21	325.00	316.54	298.21	8.46

Note: Load Summary on May 17, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	252.20	252.20	270.60
2	Eastern Grid	58.76	58.76	62.83
	National	310.96	310.96	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 18, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.26	400kV THP - Siliguri Fdr- I	0.00		Unit-IV AMP Unit- V & VI Standby 400kV THP_SIL I & II under breakdown.
		Unit- II	98.08	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	151.50	400kV THP - Siliguri Fdr- IV	144.96	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	198.77	+	
		Unit- V	0.00	400kV Malbase - Siliguri	130.93	+	
		Unit- VI	0.00				
		Total	348.84	Error At Station/Auxiliary Consumption/Losses	5.11		
2	CHP	Unit- I	84.72	220kV CHP - Birpara Fdr- I	54.78	+	Unit-III Standby
		Unit- II	86.37	220kV CHP - Birpara Fdr- II	54.66	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	110.99	+	
		Unit- IV	88.13	220kV CHP - Semtokha Fdr- IV	19.62	+	
				220kV Malbase - Birpara Fdr.	4.74	+	
				66kV CHP - Chumdo Fdr.	11.96	+	
				66kV CHP - Gedu Fdr.	4.95	+	
				3x3MVA, 66/11kV TFR	0.81	+	
		Total	259.22	Error At Station/Auxiliary Consumption/Losses	1.45		
3	BHP (U/S)	Unit- I	5.12	220kV BHP - Semtokha Fdr.	3.45	+	Upper stage unit II & lower stage unit-II Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	7.40	+	
		Total	5.12	220kV BHP - Tsirang Fdr.	4.35	+	
	BHP (L/S)	Unit- I	10.70	5MVA, 66/11kV TFR	0.55	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.70	Error At Station/Auxiliary Consumption/Losses	0.07		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.87	+	Unit-I standby.
		Unit-II	17.09	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	17.09	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	15.17	132kV KHP - Nangkhor Fdr- I	56.97	+	
		Unit-II	15.33	132kV KHP - Kilikhar Fdr- II	3.24	+	
		Unit- III	15.12	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	15.23	132kV Gelephu - Salakati Fdr.	3.09	+	
				132kV Motanga - Rangia Fdr.	29.17	+	
				220kV Tsirang - Jigmeling	18.92	+	
		Total	60.85	Error At Station/Auxiliary Consumption/Losses	0.34		

Note: Load summary on May 18, 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	640.97	231.98	225.13	390.07	6.85
2	Eastern Grid	60.85	47.51	47.17	32.26	0.34
	Total	701.82	279.49	272.30	422.33	7.19

Note: Load Summary on May 18, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.41	255.14	270.60
2	Eastern Grid	45.05	58.10	62.83
	National	284.46	313.24	333.43

NOTES:

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