

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 24, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	167.58	400kV THP - Siliguri Fdr- I	134.24	+	Unit-IV & V AMP, 400kV THP_SIL II Anti-Theft Charge Unit-III Standby
		Unit- II	140.16	400kV THP - Siliguri Fdr- II			
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	129.84	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	206.98	+	
		Unit- V	0.00	400kV Malbase - Siliguri	109.00	+	
		Unit- VI	169.90				
		Total	477.64	Error At Station/Auxiliary Consumption/Losses	6.58		
2	CHP	Unit- I	75.28	220kV CHP - Birpara Fdr- I	46.08	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	45.99	+	
		Unit- III	68.74	220kV CHP - Malbase Fdr- III	88.43	+	
		Unit- IV	88.98	220kV CHP - Semtokha Fdr- IV	29.01	+	
				220kV Malbase - Birpara Fdr.	7.11	+	
				66kV CHP - Chumdo Fdr.	15.35	+	
				66kV CHP - Gedu Fdr.	5.69	+	
				3x3MVA, 66/11kV TFR	1.16	+	
		Total	233.00	Error At Station/Auxiliary Consumption/Losses	1.29		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	5.00	+	Upper stage unit I & lower stage unit-II Standby
		Unit- II	6.80	66kV BHP - Lobeysa Fdr.	13.39	+	
		Total	6.80	220kV BHP - Tsirang Fdr.	0.00	+	
	BHP (L/S)	Unit- I	13.40	5MVA, 66/11kV TFR	0.43	+	
		Unit- II		30MVA ICT, 220/66kV			
		Total	13.40	Error At Station/Auxiliary Consumption/Losses	1.38		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	28.21	+	Unit-I Standby
		Unit-II	28.43	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	28.43	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	16.56	132kV KHP - Nangkhor Fdr- I	55.71	+	
		Unit-II	16.55	132kV KHP - Kilikhar Fdr- II	9.26	+	
		Unit- III	16.38	5MVA, 132/11kV TFR	0.12	+	
		Unit- IV	16.54	132kV Gelephu - Salakati Fdr.	0.50	+	
				132kV Motanga - Rangia Fdr.	31.57	+	
				220kV Tsirang - Jigmeling	25.82	+	
		Total	66.03	Error At Station/Auxiliary Consumption/Losses	0.94		

Note: Load summary on May 24, 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	759.27	261.19	251.72	472.26	9.47
2	Eastern Grid	66.03	59.78	58.84	32.07	0.94
	Total	825.30	320.97	310.56	504.33	10.41

Note: Load Summary on May 24, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.89	252.33	270.60
2	Eastern Grid	43.18	49.99	62.83
	National	281.07	302.32	333.43

NOTES BHP LOADS COLLECTED FROM SITE

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 25, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks	
1	THP	Unit- I	100.00	400kV THP - Siliguri Fdr- I	98.00	+	Unit-IV & V AMP, 400kV THP_SIL II Anti-Theft Charge Unit-III Standby	
		Unit- II	120.00	400kV THP - Siliguri Fdr- II				
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	92.00	+		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	159.00	+		
		Unit- V	0.00	400kV Malbase - Siliguri	74.00	+		
		Unit- VI	140.00					
		Total	360.00	Error At Station/Auxiliary Consumption/Losses		11.00		
2	CHP	Unit- I	64.00	220kV CHP - Birpara Fdr- I	26.00	+	Unit- II Standby	
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	26.00	+		
		Unit- III	56.00	220kV CHP - Malbase Fdr- III	85.00	+		
		Unit- IV	57.00	220kV CHP - Semtokha Fdr- IV	19.00	+		
				220kV Malbase - Birpara Fdr.	-23.00	-		
				66kV CHP - Chumdo Fdr.	10.30	+		
				66kV CHP - Gedu Fdr.	5.60	+		
				3x3MVA, 66/11kV TFR	0.83	+		
		Total	177.00	Error At Station/Auxiliary Consumption/Losses		4.27		
3	BHP (U/S)	Unit- I		220kV BHP - Semtokha Fdr.	3.53	+	Upper stage unit I & lower stage unit-II Standby	
		Unit- II	5.80	66kV BHP - Lobeysa Fdr.	7.52	+		
		Total	5.80	220kV BHP - Tsirang Fdr.		5.20		+
	BHP (L/S)	Unit- I	11.60	5MVA, 66/11kV TFR		0.90		+
		Unit- II		30MVA ICT, 220/66kV				
		Total	11.60	Error At Station/Auxiliary Consumption/Losses		0.25		
4	DHPC	Unit-I		220kV DHPC - Tsirang Fdr.	15.76	+	Unit-I standby.	
		Unit-II	15.96	220kV DHPC - Jigmeling Fdr.				
				5MVA, 220/33kV TFR				
		Total	15.96	Error At Station/Auxiliary Consumption/Losses		0.20		
5	KHP	Unit- I	15.17	132kV KHP - Nangkhor Fdr- I	56.84	+		
		Unit-II	15.38	132kV KHP - Kilikhar Fdr- II		3.47		+
		Unit- III	15.25	5MVA, 132/11kV TFR		0.30		+
		Unit- IV	14.97	132kV Gelephu - Salakati Fdr.		-1.40		+
				132kV Motanga - Rangia Fdr.		34.27		+
				220kV Tsirang - Jigmeling		18.66		+
		Total	60.77	Error At Station/Auxiliary Consumption/Losses		0.16		

Note: Load summary on May 25, 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	570.36	258.70	242.98	293.00	15.72
2	Eastern Grid	60.77	46.56	46.40	32.87	0.16
	Total	631.13	305.26	289.38	325.87	15.88

Note: Load Summary on May 25, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	229.23	251.68	270.60
2	Eastern Grid	39.27	55.27	62.83
	National	268.50	306.95	333.43

NOTES ALL WESTERN LOADS COLLECTED FROM SITE

- 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
- This report is generated to give an idea of the generation & load flow for the system at a particular instant.