

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 23, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.73	400kV THP - Siliguri Fdr- I	92.95	+	Unit IV & V AMP. 400kV THP_SIL fdr II Anti-Theft Charge
		Unit- II	102.03	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	70.10	400kV THP - Siliguri Fdr- IV	88.66	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	193.81	+	
		Unit- V	0.00	400kV Malbase - Siliguri	63.42	+	
		Unit- VI	70.85				
		Total	380.71	Error At Station/Auxiliary Consumption/Losses	5.29		
2	CHP	Unit- I	90.70	220kV CHP - Birpara Fdr- I	23.90	+	Unit-II & IV Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	23.75	+	
		Unit- III	90.88	220kV CHP - Malbase Fdr- III	64.17	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	45.05	+	
				220kV Malbase - Birpara Fdr.	-10.21	-	
				66kV CHP - Chumdo Fdr.	17.12	+	
				66kV CHP - Gedu Fdr.	4.74	+	
		Total	181.58	Error At Station/Auxiliary Consumption/Losses	1.54		
3	BHP (U/S)	Unit- I	6.06	220kV BHP - Semtokha Fdr.	-12.57	-	Upper stage unit II & lower stage unit-II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.57	+	
		Total	6.06	220kV BHP - Tsirang Fdr.	22.10	+	
	BHP (L/S)	Unit- I	15.02	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	15.02	Error At Station/Auxiliary Consumption/Losses	0.31		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	15.77	+	Unit-I Standby
		Unit-II	15.99	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.99	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	16.43	132kV KHP - Nangkhor Fdr- I	40.02	+	Unit-III Standby
		Unit-II	16.72	132kV KHP - Kilikhar Fdr- II	8.64	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.43	132kV Gelephu - Salakati Fdr.	-7.04	-	
				132kV Motanga - Rangia Fdr.	24.38	+	
				220kV Tsirang - Jigmeling	34.53	+	
		Total	49.58	Error At Station/Auxiliary Consumption/Losses	0.42		

Note: Load summary on May 23, 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	599.36	282.36	275.00	282.47	7.36
2	Eastern Grid	49.58	66.77	66.35	17.34	0.42
	Total	648.94	349.13	341.35	299.81	7.78

Note: Load Summary on May 23, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	162.82	173.45	270.60
2	Eastern Grid	46.27	48.55	62.83
	National	209.09	222.00	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 24, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	178.20	400kV THP - Siliguri Fdr- I	217.55	+	Unit IV & V AMP, 400kV THP_SIL II Anti-Theft Charge
		Unit- II	179.70	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	180.92	400kV THP - Siliguri Fdr- IV	208.77	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	271.77	+	
		Unit- V	0.00	400kV Malbase - Siliguri	191.02	+	
		Unit- VI	170.26				
		Total	709.08	Error At Station/Auxiliary Consumption/Losses		10.99	
2	CHP	Unit- I	90.57	220kV CHP - Birpara Fdr- I	56.60	+	Unit- IV Standby
		Unit- II	69.35	220kV CHP - Birpara Fdr- II	56.48	+	
		Unit- III	90.12	220kV CHP - Malbase Fdr- III	108.61	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	9.32	+	
				220kV Malbase - Birpara Fdr.	9.58	+	
				66kV CHP - Chumdo Fdr.	11.21	+	
				66kV CHP - Gedu Fdr.	5.92	+	
				3x3MVA, 66/11kV TFR	0.82	+	
		Total	250.04	Error At Station/Auxiliary Consumption/Losses		1.08	
3	BHP (U/S)	Unit- I	9.27	220kV BHP - Semtokha Fdr.	11.64	+	Upper stage unit II standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.20	+	
		Total	9.27	220kV BHP - Tsirang Fdr.		4.05	
	BHP (L/S)	Unit- I	8.12	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	8.12	30MVA ICT, 220/66kV			
		Total	16.24	Error At Station/Auxiliary Consumption/Losses		0.19	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	25.42	+	Unit-I standby.
		Unit-II	25.63	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	25.63	Error At Station/Auxiliary Consumption/Losses		0.21	
5	KHP	Unit- I	16.58	132kV KHP - Nangkhor Fdr- I	62.25	+	
		Unit-II	16.71	132kV KHP - Kilikhar Fdr- II	3.36	+	
		Unit- III	16.58	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.42	132kV Gelephu - Salakati Fdr.	10.01	+	
				132kV Motanga - Rangia Fdr.	36.01	+	
				220kV Tsirang - Jigmeling	28.38	+	
		Total	66.29	Error At Station/Auxiliary Consumption/Losses		0.28	

Note: Load summary on May 24, 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	1,010.26	241.88	229.41	740.00	12.47
2	Eastern Grid	66.29	48.65	48.37	46.02	0.28
	Total	1,076.55	290.53	277.78	786.02	12.75

Note: Load Summary on May 24, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	143.41	252.33	270.60
2	Eastern Grid	45.98	49.99	62.83
	National	189.39	302.32	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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