

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: May 20, 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	THP	Unit- I	178.83	400kV THP - Siliguri Fdr- I	0.00		Unit-IV AMP Unit- V & VI Standby 400kV THP_SIL fdr I & II under breakdown
		Unit- II	179.72	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	128.94	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	225.15	+	
		Unit- V	0.00	400kV Malbase - Siliguri	105.08	+	
		Unit- VI	0.00				
		Total	358.55	Error At Station/Auxiliary Consumption/Losses	4.46		
2	CHP	Unit- I	66.35	220kV CHP - Birpara Fdr- I	30.63	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	30.64	+	
		Unit- III	63.34	220kV CHP - Malbase Fdr- III	71.06	+	
		Unit- IV	72.51	220kV CHP - Semtokha Fdr- IV	45.47	+	
				220kV Malbase - Birpara Fdr.	-3.60	+	
				66kV CHP - Chumdo Fdr.	16.47	+	
				66kV CHP - Gedu Fdr.	5.29	+	
				3x3MVA, 66/11kV TFR	1.13	+	
		Total	202.20	Error At Station/Auxiliary Consumption/Losses	1.51		
3	BHP (U/S)	Unit- I	4.54	220kV BHP - Semtokha Fdr.	-14.91	-	Upper stage unit II & lower stage unit-II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.51	+	
		Total	4.54	220kV BHP - Tsirang Fdr.	18.61	+	
	BHP (L/S)	Unit- I	9.39	5MVA, 66/11kV TFR	0.65	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	9.39	Error At Station/Auxiliary Consumption/Losses	0.07		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	15.76	+	Unit-I Standby
		Unit-II	16.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	16.00	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	11.10	132kV KHP - Nangkhor Fdr- I	39.60	+	
		Unit-II	11.20	132kV KHP - Kilikhar Fdr- II	8.04	+	
		Unit- III	15.15	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	11.20	132kV Gelephu - Salakati Fdr.	-11.30	-	
				132kV Motanga - Rangia Fdr.	24.70	+	
				220kV Tsirang - Jigmeling	32.48	+	
		Total	48.65	Error At Station/Auxiliary Consumption/Losses	0.61		

Note: Load summary on May 20, 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	590.68	266.51	260.23	291.69	6.28
2	Eastern Grid	48.65	67.73	67.12	13.40	0.61
	Total	639.33	334.24	327.35	305.09	6.89

Note: Load Summary on May 20, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.57	242.17	270.60
2	Eastern Grid	56.14	56.52	62.83
	National	289.71	298.69	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: May 21, 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	THP	Unit- I	100.39	400kV THP - Siliguri Fdr- I	0.00		Unit-IV AMP, Unit- V & VI Standby. 400kV THP_SIL I & II under breakdown.
		Unit- II	100.75	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	100.96	400kV THP - Siliguri Fdr- IV	112.72	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	185.21	+	
		Unit- V	0.00	400kV Malbase - Siliguri	96.41	+	
		Unit- VI	0.00				
		Total	302.10	Error At Station/Auxiliary Consumption/Losses	4.17		
2	CHP	Unit- I	75.59	220kV CHP - Birpara Fdr- I	21.41	+	Unit-II & III Standby □
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	21.45	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	78.33	+	
		Unit- IV	74.81	220kV CHP - Semtokha Fdr- IV	12.33	+	
				220kV Malbase - Birpara Fdr.	-25.39	+	
				66kV CHP - Chumdo Fdr.	9.77	+	
				66kV CHP - Gedu Fdr.	5.56	+	
				3x3MVA, 66/11kV TFR	0.72	+	
		Total	150.40	Error At Station/Auxiliary Consumption/Losses	0.83		
3	BHP (U/S)	Unit- I	4.61	220kV BHP - Semtokha Fdr.	8.82	+	Upper stage unit II & lower stage unit-II Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	7.76	+	
		Total	4.61	220kV BHP - Tsirang Fdr.	-2.60	-	
	BHP (L/S)	Unit- I	9.59	5MVA, 66/11kV TFR	0.43	+	
		Total	9.59	Error At Station/Auxiliary Consumption/Losses	-0.21		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.59	+	Unit-I standby.
		Unit-II	16.79	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	16.79	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	61.27	+	
		Unit-II	16.46	132kV KHP - Kilikhar Fdr- II	3.60	+	
		Unit- III	16.53	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.46	132kV Gelephu - Salakati Fdr.	-3.21	+	
				132kV Motanga - Rangia Fdr.	32.23	+	
				220kV Tsirang - Jigmeling	13.46	+	
		Total	65.77	Error At Station/Auxiliary Consumption/Losses	0.50		

Note: Load summary on May 21, 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	483.49	243.43	238.44	226.60	4.99
2	Eastern Grid	65.77	50.21	49.71	29.02	0.50
	Total	549.26	293.64	288.15	255.62	5.49

Note: Load Summary on May 21, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	203.35	241.98	270.60
2	Eastern Grid	42.12	57.77	62.83
	National	245.47	299.75	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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