

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: May 22, 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	119.16	400kV THP - Siliguri Fdr- I	96.02	+	Unit IV AMP. Unit V Standby. 400kV THP_SIL fdr II Anti-Theft Charge
		Unit- II	78.21	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	100.93	400kV THP - Siliguri Fdr- IV	90.92	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	187.46	+	
		Unit- V	0.00	400kV Malbase - Siliguri	67.66	+	
		Unit- VI	80.61				
		Total	378.91	Error At Station/Auxiliary Consumption/Losses	4.51		
2	CHP	Unit- I	91.17	220kV CHP - Birpara Fdr- I	26.48	+	Unit-II & IV Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	26.67	+	
		Unit- III	91.83	220kV CHP - Malbase Fdr- III	65.30	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	41.83	+	
				220kV Malbase - Birpara Fdr.	-6.35	-	
				66kV CHP - Chumdo Fdr.	15.70	+	
				66kV CHP - Gedu Fdr.	4.39	+	
				3x3MVA, 66/11kV TFR	1.22	+	
		Total	183.00	Error At Station/Auxiliary Consumption/Losses	1.41		
3	BHP (U/S)	Unit- I	4.47	220kV BHP - Semtokha Fdr.	-11.46	-	Upper stage unit II & lower stage unit-II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.14	+	
		Total	4.47	220kV BHP - Tsirang Fdr.	15.17	+	
	BHP (L/S)	Unit- I	9.39	5MVA, 66/11kV TFR	0.82	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	9.39	Error At Station/Auxiliary Consumption/Losses	0.19		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	15.48	+	Unit-I Standby
		Unit-II	15.73	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.73	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	14.12	132kV KHP - Nangkhor Fdr- I	47.75	+	
		Unit-II	14.32	132kV KHP - Kilikhar Fdr- II	8.54	+	
		Unit- III	14.25	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	14.23	132kV Gelephu - Salakati Fdr.	-7.28	-	
				132kV Motanga - Rangia Fdr.	37.72	+	
				220kV Tsirang - Jigmeling	38.02	+	
		Total	56.92	Error At Station/Auxiliary Consumption/Losses	0.03		

Note: Load summary on May 22, 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	591.50	252.08	245.72	301.40	6.36
2	Eastern Grid	56.92	64.50	64.47	30.44	0.03
	Total	648.42	316.58	310.19	331.84	6.39

Note: Load Summary on May 22, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	176.13	238.97	270.60
2	Eastern Grid	53.41	53.41	62.83
	National	229.54	292.38	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

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Date: May 23, 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	88.78	400kV THP - Siliguri Fdr- I	80.18	+	Unit IV AMP, Unit V Standby. Unit VI Vibration Problem. 400kV THP_SIL II Anti-Theft Charge
		Unit- II	120.87	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	100.86	400kV THP - Siliguri Fdr- IV	76.74	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	148.51	+	
		Unit- V	0.00	400kV Malbase - Siliguri	60.59	+	
		Unit- VI	0.00				
		Total	310.51	Error At Station/Auxiliary Consumption/Losses	5.08		
2	CHP	Unit- I	75.99	220kV CHP - Birpara Fdr- I	25.36	+	Unit-II & IV Standby □
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	25.46	+	
		Unit- III	77.71	220kV CHP - Malbase Fdr- III	85.89	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-0.73	-	
				220kV Malbase - Birpara Fdr.	-24.34	-	
				66kV CHP - Chumdo Fdr.	10.80	+	
				66kV CHP - Gedu Fdr.	5.68	+	
				3x3MVA, 66/11kV TFR	0.76	+	
		Total	153.70	Error At Station/Auxiliary Consumption/Losses	0.48		
3	BHP (U/S)	Unit- I	10.15	220kV BHP - Semtokha Fdr.	20.86	+	Upper stage unit II & lower stage unit-II Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.89	+	
		Total	10.15	220kV BHP - Tsirang Fdr.	4.35	+	
	BHP (L/S)	Unit- I	25.47	5MVA, 66/11kV TFR	0.41	+	
		Total	25.47	Error At Station/Auxiliary Consumption/Losses	0.11		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	15.73	+	Unit-I standby.
		Unit-II	15.96	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	15.96	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	16.51	132kV KHP - Nangkhor Fdr- I	61.01	+	
		Unit-II	16.76	132kV KHP - Kilikhar Fdr- II	4.62	+	
		Unit- III	16.71	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.53	132kV Gelephu - Salakati Fdr.	5.42	+	
				132kV Motanga - Rangia Fdr.	34.16	+	
				220kV Tsirang - Jigmeling	19.12	+	
		Total	66.51	Error At Station/Auxiliary Consumption/Losses	0.48		

Note: Load summary on May 23, 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	515.79	252.68	246.78	243.99	5.90
2	Eastern Grid	66.51	46.05	45.57	39.58	0.48
	Total	582.30	298.73	292.35	283.57	6.38

Note: Load Summary on May 23, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	151.87	173.45	270.60
2	Eastern Grid	38.27	48.55	62.83
	National	190.14	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:
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