

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 15, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.24	400kV THP - Siliguri Fdr- I	0.00	+	Unit-IV AMP Unit- V & VI Standby 400kV THP_SIL fdr I & II under breakdown
		Unit- II	119.41	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	80.27	400kV THP - Siliguri Fdr- IV	98.08	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	197.80	+	
		Unit- V	0.00	400kV Malbase - Siliguri	76.21	+	
		Unit- VI	0.00				
		Total	298.92	Error At Station/Auxiliary Consumption/Losses	3.04		
2	CHP	Unit- I	56.19	220kV CHP - Birpara Fdr- I	32.69	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	32.33	+	
		Unit- III	69.56	220kV CHP - Malbase Fdr- III	63.87	+	
		Unit- IV	73.93	220kV CHP - Semtokha Fdr- IV	46.46	+	
				220kV Malbase - Birpara Fdr.	2.87	+	
				66kV CHP - Chumdo Fdr.	16.50	+	
				66kV CHP - Gedu Fdr.	4.73	+	
		Total	199.68	Error At Station/Auxiliary Consumption/Losses	1.72		
3	BHP (U/S)	Unit- I	5.42	220kV BHP - Semtokha Fdr.	-13.05	-	Upper stage unit II & lower stage unit-I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.23	+	
		Total	5.42	220kV BHP - Tsirang Fdr.	18.88	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.66	+	
		Unit- II	10.70	30MVA ICT, 220/66kV			
		Total	10.70	Error At Station/Auxiliary Consumption/Losses	-0.60		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.14	+	Unit-I Standby
		Unit-II	17.37	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.37	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	11.36	132kV KHP - Nangkhor Fdr- I	37.66	+	
		Unit-II	11.39	132kV KHP - Kilikhar Fdr- II	8.92	+	
		Unit- III	13.60	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	11.08	132kV Gelephu - Salakati Fdr.	-6.44	-	
				132kV Motanga - Rangia Fdr.	22.86	+	
				220kV Tsirang - Jigmeling	34.29	+	
		Total	47.43	Error At Station/Auxiliary Consumption/Losses	0.35		

Note: Load summary on May 15, 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	532.09	255.62	251.23	242.18	4.39
2	Eastern Grid	47.43	65.30	64.95	16.42	0.35
	Total	579.52	320.92	316.18	258.60	4.74

Note: Load Summary on May 15, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.08	254.26	270.60
2	Eastern Grid	59.54	59.54	62.83
	National	310.62	313.80	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 16, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.36	400kV THP - Siliguri Fdr- I	0.00	+	Unit-IV AMP Unit- V & VI Standby 400kV THP_SIL I & II under breakdown.
		Unit- II	119.04	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	140.18	400kV THP - Siliguri Fdr- IV	133.08	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	219.29	+	
		Unit- V	0.00	400kV Malbase - Siliguri	114.54	+	
		Unit- VI	0.00				
		Total	358.58	Error At Station/Auxiliary Consumption/Losses	6.21		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	30.38	+	Unit-I Standby & Unit III AMP
		Unit- II	78.76	220kV CHP - Birpara Fdr- II	30.25	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	71.75	+	
		Unit- IV	81.71	220kV CHP - Semtokha Fdr- IV	14.99	+	
				220kV Malbase - Birpara Fdr.	-5.67	-	
				66kV CHP - Chumdo Fdr.	5.52	+	
				66kV CHP - Gedu Fdr.	5.96	+	
		Total	160.47	Error At Station/Auxiliary Consumption/Losses	0.90		
3	BHP (U/S)	Unit- I	4.96	220kV BHP - Semtokha Fdr.	6.57	+	Upper stage unit II & lower stage unit-I Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	7.80	+	
		Total	4.96	220kV BHP - Tsirang Fdr.	0.31	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.39	+	
		Total	10.48	Error At Station/Auxiliary Consumption/Losses	0.37		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	15.78	+	Unit-I standby.
		Unit-II	15.97	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.97	Error At Station/Auxiliary Consumption/Losses	0.19		
5	KHP	Unit- I	15.13	132kV KHP - Nangkhor Fdr- I	55.82	+	
		Unit-II	15.11	132kV KHP - Kilikhar Fdr- II	3.72	+	
		Unit- III	15.11	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.90	132kV Gelephu - Salakati Fdr.	0.25	+	
				132kV Motanga - Rangia Fdr.	26.32	+	
				220kV Tsirang - Jigmeling	15.09	+	
		Total	60.25	Error At Station/Auxiliary Consumption/Losses	0.41		

Note: Load summary on May 16, 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	550.46	232.79	225.12	302.58	7.67
2	Eastern Grid	60.25	48.77	48.36	26.57	0.41
	Total	610.71	281.56	273.48	329.15	8.08

Note: Load Summary on May 16, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	234.20	255.55	270.60
2	Eastern Grid	44.44	54.88	62.83
	National	278.64	310.43	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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