

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 30, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	67.58	400kV THP - Siliguri Fdr- I	76.15	+	Unit-III & V standby
		Unit- II	72.10	400kV THP - Siliguri Fdr- II	74.41	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	71.51	+	
		Unit- IV	71.06	400kV THP - Malbase Fdr- III	165.40	+	
		Unit- V	0.00	400kV Malbase - Siliguri	52.48	+	
		Unit- VI	185.79				
		Total	396.53	Error At Station/Auxiliary Consumption/Losses	9.06		
2	CHP	Unit- I	62.00	220kV CHP - Birpara Fdr- I	27.24	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	27.20	+	
		Unit- III	66.00	220kV CHP - Malbase Fdr- III	72.01	+	
		Unit- IV	65.00	220kV CHP - Semtokha Fdr- IV	44.85	+	
				220kV Malbase - Birpara Fdr.	-9.71	-	
				66kV CHP - Chumdo Fdr.	8.84	+	
				66kV CHP - Gedu Fdr.	6.20	+	
		Total	193.00	Error At Station/Auxiliary Consumption/Losses	5.82		
3	BHP (U/S)	Unit- I	5.94	220kV BHP - Semtokha Fdr.	-2.11	-	Upper stage unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	11.77	+	
		Total	5.94	220kV BHP - Tsirang Fdr.	13.85	+	
	BHP (L/S)	Unit- I	6.80	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	6.49	30MVA ICT, 220/66kV			
		Total	13.29	Error At Station/Auxiliary Consumption/Losses	-4.90		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.14	+	Unit-I Standby
		Unit-II	17.35	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	17.35	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	16.44	132kV KHP - Nangkhor Fdr- I	56.33	+	
		Unit-II	16.54	132kV KHP - Kilikhar Fdr- II	9.10	+	
		Unit- III	16.28	5MVA, 132/11kV TFR	2.63	+	
		Unit- IV	16.49	132kV Gelephu - Salakati Fdr.	-5.32	-	
				132kV Motanga - Rangia Fdr.	36.48	+	
				220kV Tsirang - Jigmeling	30.55	+	
		Total	65.75	Error At Station/Auxiliary Consumption/Losses	-2.31		

Note: Load summary on May 30, 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	626.11	276.28	266.09	319.28	10.19
2	Eastern Grid	65.75	65.14	67.45	31.16	-2.31
Total		691.86	341.42	333.54	350.44	7.88

Note: Load Summary on May 30, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	216.72	237.53	270.60
2	Eastern Grid	50.24	50.24	62.83
National		266.96	287.77	333.43

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 31, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	69.16	400kV THP - Siliguri Fdr- I	79.77	+	Unit-III & V standby
		Unit- II	70.56	400kV THP - Siliguri Fdr- II	77.82	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	76.22	+	
		Unit- IV	71.16	400kV THP - Malbase Fdr- III	140.84	+	
		Unit- V	0.00	400kV Malbase - Siliguri	61.56	+	
		Unit- VI	170.47				
		Total	381.35	Error At Station/Auxiliary Consumption/Losses	6.70		
2	CHP	Unit- I	54.92	220kV CHP - Birpara Fdr- I	27.60	+	Unit- II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	27.81	+	
		Unit- III	54.66	220kV CHP - Malbase Fdr- III	81.92	+	
		Unit- IV	63.50	220kV CHP - Semtokha Fdr- IV	21.56	+	
				220kV Malbase - Birpara Fdr.	-16.68	-	
				66kV CHP - Chumdo Fdr.	5.33	+	
				66kV CHP - Gedu Fdr.	6.06	+	
				3x3MVA, 66/11kV TFR	0.76	+	
		Total	173.08	Error At Station/Auxiliary Consumption/Losses	2.04		
3	BHP (U/S)	Unit- I	5.90	220kV BHP - Semtokha Fdr.	7.45	+	Upper stage unit II Standby.Lower Stage Unit-II standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.44	+	
		Total	5.90	220kV BHP - Tsirang Fdr.	-1.15	-	
	BHP (L/S)	Unit- I	5.17	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	4.95	30MVA ICT, 220/66kV			
		Total	10.12	Error At Station/Auxiliary Consumption/Losses	-0.09		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.46	+	Unit-I standby.
		Unit-II	21.65	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	21.65	Error At Station/Auxiliary Consumption/Losses	0.19		
5	KHP	Unit- I	16.36	132kV KHP - Nangkhor Fdr- I	62.03	+	
		Unit-II	16.62	132kV KHP - Kilikhar Fdr- II	3.69	+	
		Unit- III	16.73	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.59	132kV Gelephu - Salakati Fdr.	2.04	+	
				132kV Motanga - Rangia Fdr.	29.33	+	
				220kV Tsirang - Jigmeling	18.92	+	
		Total	66.30	Error At Station/Auxiliary Consumption/Losses	0.18		

Note: Load summary on May 31, 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	592.10	239.08	230.24	334.10	8.84
2	Eastern Grid	66.30	53.85	53.67	31.37	0.18
	Total	658.40	292.93	283.91	365.47	9.02

Note: Load Summary on May 31, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.06	240.10	270.60
2	Eastern Grid	35.67	57.66	62.83
	National	268.73	297.76	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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2. This report is generated to give an idea of the generation & load flow for the system at a particular instant.