

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 28, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	67.34	400kV THP - Siliguri Fdr- I	118.88	+	400kV THP_SIL II Anti-Theft Charge
		Unit- II	151.02	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	112.80	+	
		Unit- IV	151.14	400kV THP - Malbase Fdr- III	199.09	+	
		Unit- V	0.00	400kV Malbase - Siliguri	92.97	+	
		Unit- VI	70.47				
		Total	439.97	Error At Station/Auxiliary Consumption/Losses	9.20		
2	CHP	Unit- I	71.26	220kV CHP - Birpara Fdr- I	34.23	+	Unit-IV Standby
		Unit- II	69.13	220kV CHP - Birpara Fdr- II	34.07	+	
		Unit- III	67.15	220kV CHP - Malbase Fdr- III	78.54	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	38.44	+	
				220kV Malbase - Birpara Fdr.	-2.30	-	
				66kV CHP - Chumdo Fdr.	15.18	+	
				66kV CHP - Gedu Fdr.	5.16	+	
		Total	207.54	Error At Station/Auxiliary Consumption/Losses	0.55		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	9.00	+	Upper stage unit I & lower stage unit-II Standby
		Unit- II	5.76	66kV BHP - Lobeysa Fdr.	10.21	+	
		Total	5.76	220kV BHP - Tsirang Fdr.	15.74	+	
	BHP (L/S)	Unit- I	12.38	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.38	Error At Station/Auxiliary Consumption/Losses	-17.49		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.78	+	Unit-I Standby
		Unit-II	20.01	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	20.01	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	16.33	132kV KHP - Nangkhor Fdr- I	61.85	+	
		Unit-II	16.35	132kV KHP - Kilikhar Fdr- II	2.87	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	-0.08	-	
				132kV Motanga - Rangia Fdr.	41.18	+	
				220kV Tsirang - Jigmeling	33.20	+	
		Total	65.62	Error At Station/Auxiliary Consumption/Losses	0.50		

Note: Load summary on May 28, 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	685.66	261.81	269.32	390.65	-7.51
2	Eastern Grid	65.62	57.72	57.22	41.10	0.50
	Total	751.28	319.53	326.54	431.75	-7.01

Note: Load Summary on May 28, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.30	245.88	270.60
2	Eastern Grid	52.02	52.02	62.83
	National	287.32	297.90	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 29, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	70.12	400kV THP - Siliguri Fdr- I	55.00	+	Unit-III & V standby
		Unit- II	69.52	400kV THP - Siliguri Fdr- II	53.21		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	51.38	+	
		Unit- IV	71.40	400kV THP - Malbase Fdr- III	116.81	+	
		Unit- V	0.00	400kV Malbase - Siliguri	37.76	+	
		Unit- VI	70.84				
		Total	281.88	Error At Station/Auxiliary Consumption/Losses	5.48		
2	CHP	Unit- I	51.79	220kV CHP - Birpara Fdr- I	21.49	+	Unit- IV Standby
		Unit- II	48.64	220kV CHP - Birpara Fdr- II	21.19	+	
		Unit- III	51.72	220kV CHP - Malbase Fdr- III	77.37	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	14.25	+	
				220kV Malbase - Birpara Fdr.	-23.52	-	
				66kV CHP - Chumdo Fdr.	11.43	+	
			151.02	66kV CHP - Gedu Fdr.	5.29	+	
				3x3MVA, 66/11kV TFR	0.91	+	
		Total	152.15	Error At Station/Auxiliary Consumption/Losses	0.22		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	7.04	+	Upper stage unit I Standby.Lower Stage Unit-II standby.
		Unit- II	5.62	66kV BHP - Lobeysa Fdr.	8.53	+	
		Total	5.62	220kV BHP - Tsirang Fdr.	1.39	-	
	BHP (L/S)	Unit- I	11.74	5MVA, 66/11kV TFR	0.35	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	11.74	Error At Station/Auxiliary Consumption/Losses	0.05		
4	DHPC	Unit-I		220kV DHPC - Tsirang Fdr.	18.47	+	Unit-I standby.
		Unit-II	18.67	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	18.67	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	16.33	132kV KHP - Nangkhor Fdr- I	61.85	+	
		Unit-II	16.35	132kV KHP - Kilikhar Fdr- II	2.87	+	
		Unit- III	16.48	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	-0.08	-	
				132kV Motanga - Rangia Fdr.	41.18	+	
				220kV Tsirang - Jigmeling	18.50	+	
		Total	65.68	Error At Station/Auxiliary Consumption/Losses	0.66		

Note: Load summary on May 29, 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	470.06	235.05	229.10	216.51	5.95
2	Eastern Grid	65.68	43.08	42.42	41.10	0.66
	Total	535.74	278.13	271.52	257.61	6.61

Note: Load Summary on May 29, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	219.73	247.19	270.60
2	Eastern Grid	44.90	50.11	62.83
	National	264.63	297.30	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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