

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: May 27, 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	0.00	400kV THP - Siliguri Fdr- I	123.98	+	400kV THP_SIL II Anti-Theft Charge Unit-I under breakdown.
		Unit- II	121.53	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	69.96	400kV THP - Siliguri Fdr- IV	119.49	+	
		Unit- IV	100.35	400kV THP - Malbase Fdr- III	200.02	+	
		Unit- V	79.57	400kV Malbase - Siliguri	99.51	+	
		Unit- VI	80.00				
		Total	451.41	Error At Station/Auxiliary Consumption/Losses	7.92		
2	CHP	Unit- I	74.68	220kV CHP - Birpara Fdr- I	37.28	+	Unit-IV Standby
		Unit- II	75.50	220kV CHP - Birpara Fdr- II	37.59	+	
		Unit- III	74.87	220kV CHP - Malbase Fdr- III	92.09	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	33.83	+	
				220kV Malbase - Birpara Fdr.	-9.22	+	
				66kV CHP - Chumdo Fdr.	15.67	+	
				66kV CHP - Gedu Fdr.	4.90	+	
				3x3MVA, 66/11kV TFR	1.31	+	
		Total	225.05	Error At Station/Auxiliary Consumption/Losses	2.38		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	7.20	+	Upper stage unit I & lower stage unit-II Standby
		Unit- II	6.00	66kV BHP - Lobeysa Fdr.	10.43	+	
		Total	6.00	220kV BHP - Tsirang Fdr.	12.65	+	
	BHP (L/S)	Unit- I	11.30	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	11.30	Error At Station/Auxiliary Consumption/Losses	-13.66		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.79	+	Unit-I Standby
		Unit-II	20.02	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	20.02	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	13.14	132kV KHP - Nangkhor Fdr- I	46.32	+	
		Unit-II	13.28	132kV KHP - Kilikhar Fdr- II	8.91	+	
		Unit- III	15.37	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	14.15	132kV Gelephu - Salakati Fdr.	-7.26	-	
				132kV Motanga - Rangia Fdr.	31.55	+	
				220kV Tsirang - Jigmeling	31.56	+	
		Total	55.94	Error At Station/Auxiliary Consumption/Losses	0.21		

Note: Load summary on May 27, 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	713.78	273.59	276.72	408.63	-3.13
2	Eastern Grid	55.94	63.21	63.00	24.29	0.21
	Total	769.72	336.80	339.72	432.92	-2.92

Note: Load Summary on May 27, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	234.27	253.63	270.60
2	Eastern Grid	56.07	56.07	62.83
	National	290.34	309.70	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 28, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	68.83	400kV THP - Siliguri Fdr- I	71.74	+	Unit-III standbyHP_SIL II Anti-Theft Charge Unit-I under breakdown.
		Unit- II	71.13	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	67.56	+	
		Unit- IV	71.09	400kV THP - Malbase Fdr- III	138.63	+	
		Unit- V	0.00	400kV Malbase - Siliguri	53.55	+	
		Unit- VI	70.96				
		Total	282.01	Error At Station/Auxiliary Consumption/Losses	4.08		
2	CHP	Unit- I	44.41	220kV CHP - Birpara Fdr- I	20.20	+	Unit- IV Standby
		Unit- II	50.89	220kV CHP - Birpara Fdr- II	20.14	+	
		Unit- III	49.61	220kV CHP - Malbase Fdr- III	80.34	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	7.91	+	
				220kV Malbase - Birpara Fdr.	27.87	-	
				66kV CHP - Chumdo Fdr.	9.52	+	
			144.18	66kV CHP - Gedu Fdr.	6.07	+	
				3x3MVA, 66/11kV TFR	0.92	+	
		Total	144.91	Error At Station/Auxiliary Consumption/Losses	-0.19		
3	BHP (U/S)	Unit- I	6.40	220kV BHP - Semtokha Fdr.	12.96	+	Upper stage unit I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.19	+	
		Total	6.40	220kV BHP - Tsirang Fdr.	-1.42	-	
	BHP (L/S)	Unit- I	7.03	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	6.75	30MVA ICT, 220/66kV			
		Total	13.78	Error At Station/Auxiliary Consumption/Losses	0.03		
4	DHPC	Unit-I		220kV DHPC - Tsirang Fdr.	19.92	+	Unit-I standby.
		Unit-II	20.12	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	20.12	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	61.48	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	4.08	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	1.28	-	
				132kV Motanga - Rangia Fdr.	33.30	+	
				220kV Tsirang - Jigmeling	18.03	+	
		Total	66.00	Error At Station/Auxiliary Consumption/Losses	0.14		

Note: Load summary on May 28, 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	467.22	188.13	184.01	261.06	4.12
2	Eastern Grid	66.00	49.45	49.31	34.58	0.14
	Total	533.22	237.58	233.32	295.64	4.26

Note: Load Summary on May 28, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	213.20	245.88	270.60
2	Eastern Grid	25.66	52.02	62.83
	National	238.86	297.90	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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