

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: May 2, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	69.76	400kV THP - Siliguri Fdr- I	172.19	+	Unit-VI under AM. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	137.76	400kV THP - Siliguri Fdr- II	171.59	+	
		Unit- III	150.78	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	139.44	400kV THP - Malbase Fdr- III	228.76	+	
		Unit- V	79.56	400kV Malbase - Siliguri	146.69	+	
		Unit- VI	0.00				
		Total	577.30	Error At Station/Auxiliary Consumption/Losses	4.76		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	54.23	+	Unit-I under AM.
		Unit- II	90.66	220kV CHP - Birpara Fdr- II	54.34	+	
		Unit- III	91.92	220kV CHP - Malbase Fdr- III	112.44	+	
		Unit- IV	91.28	220kV CHP - Semtokha Fdr- IV	33.37	+	
				220kV Malbase - Birpara Fdr.	0.00	-	
				66kV CHP - Chumdo Fdr.	8.09	+	
				66kV CHP - Gedu Fdr.	7.83	+	
				3x3MVA, 66/11kV TFR	1.35	+	
		Total	273.86	Error At Station/Auxiliary Consumption/Losses	2.21		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	4.47	+	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	5.03	66kV BHP - Lobeysa Fdr.	11.09	+	
		Total	5.03	220kV BHP - Tsirang Fdr.	-0.23	-	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.43	Error At Station/Auxiliary Consumption/Losses	1.45		
4	DHPC	Unit-I	17.26	220kV DHPC - Tsirang Fdr.	17.03	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.26	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	16.30	132kV KHP - Nangkhor Fdr- I	55.21	+	
		Unit-II	16.32	132kV KHP - Kilikhar Fdr- II	9.31	+	
		Unit- III	16.37	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.43	132kV Gelephu - Salakati Fdr.	-4.19	-	
				132kV Motanga - Rangia Fdr.	32.22	+	
				220kV Tsirang - Jigmeling	14.58	+	
		Total	65.42	Error At Station/Auxiliary Consumption/Losses	0.50		

Note: Load summary on May 02, 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	885.88	272.26	263.61	599.04	8.65
2	Eastern Grid	65.42	51.97	51.47	28.03	0.50
	Total	951.30	324.23	315.08	627.07	9.15

Note: Load Summary on May 02, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	268.73	268.73	270.60
2	Eastern Grid	53.73	54.95	62.83
	National	322.46	323.68	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 3, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	69.52	400kV THP - Siliguri Fdr- I	161.93	+	Unit-VI under AM. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	138.33	400kV THP - Siliguri Fdr- II	160.71	+	
		Unit- III	121.54	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	99.57	400kV THP - Malbase Fdr- III	180.07	+	
		Unit- V	80.01	400kV Malbase - Siliguri	146.56	+	
		Unit- VI	0.00				
		Total	508.97	Error At Station/Auxiliary Consumption/Losses	6.26		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	55.34	+	Unit-I under AM.
		Unit- II	92.08	220kV CHP - Birpara Fdr- II	55.27	+	
		Unit- III	92.00	220kV CHP - Malbase Fdr- III	145.18	+	
		Unit- IV	91.68	220kV CHP - Semtokha Fdr- IV	6.63	+	
				220kV Malbase - Birpara Fdr.	-20.73	-	
				66kV CHP - Chumdo Fdr.	4.16	+	
				66kV CHP - Gedu Fdr.	8.11	+	
		Total	275.76	Error At Station/Auxiliary Consumption/Losses	0.19		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	20.70	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby.
		Unit- II	5.10	66kV BHP - Lobeysa Fdr.	9.26	+	
		Total	5.10	220kV BHP - Tsirang Fdr.	-14.99	-	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.38	+	
		Total	12.43	Error At Station/Auxiliary Consumption/Losses	2.18		
4	DHPC	Unit-I	18.24	220kV DHPC - Tsirang Fdr.	18.04	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	18.24	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	16.52	132kV KHP - Nangkhor Fdr- I	61.30	+	
		Unit-II	16.55	132kV KHP - Kilikhar Fdr- II	3.80	+	
		Unit- III	16.51	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.36	132kV Gelephu - Salakati Fdr.	-3.74	+	
				132kV Motanga - Rangia Fdr.	24.97	+	
				220kV Tsirang - Jigmeling	-3.24	-	
		Total	65.94	Error At Station/Auxiliary Consumption/Losses	0.54		

Note: Load summary on May 03, 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	820.50	264.66	255.83	559.08	8.83
2	Eastern Grid	65.94	41.47	40.93	21.23	0.54
Total		886.44	306.13	296.76	580.31	9.37

Note: Load Summary on May 03, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	231.68	247.64	270.60
2	Eastern Grid	37.60	52.94	62.83
National		269.28	300.58	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
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