

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 24, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	118.15	400kV THP - Siliguri Fdr- I	93.82	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	93.44	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	139.65	400kV THP - Malbase Fdr- III	183.14	+	
		Unit- V	118.72	400kV Malbase - Siliguri	68.89	+	
		Unit- VI	0.00				
		Total	376.52	Error At Station/Auxiliary Consumption/Losses	6.12		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	27.90	+	Unit-I under AM. Unit-IV standby
		Unit- II	60.84	220kV CHP - Birpara Fdr- II	27.83	+	
		Unit- III	64.19	220kV CHP - Malbase Fdr- III	66.25	+	
		Unit- IV	64.48	220kV CHP - Semtokha Fdr- IV	49.35	+	
				220kV Malbase - Birpara Fdr.	-1.93	-	
				66kV CHP - Chumdo Fdr.	9.75	+	
				66kV CHP - Gedu Fdr.	5.98	+	
				3x3MVA, 66/11kV TFR	1.41	+	
		Total	189.51	Error At Station/Auxiliary Consumption/Losses	1.04		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-7.89	-	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	5.20	66kV BHP - Lobeysa Fdr.	10.83	+	
		Total	5.20	220kV BHP - Tsirang Fdr.	10.97	+	
	BHP (L/S)	Unit- I	10.40	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.40	Error At Station/Auxiliary Consumption/Losses	0.80		
4	DHPC	Unit-I	16.44	220kV DHPC - Tsirang Fdr.	16.21	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	16.44	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	12.00	132kV KHP - Nangkhor Fdr- I	25.91	+	Unit-II & III Standby
		Unit-II	11.00	132kV KHP - Kilikhar Fdr- II	9.50	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.00	132kV Gelephu - Salakati Fdr.	-15.56	-	
				132kV Motanga - Rangia Fdr.	17.60	+	
				220kV Tsirang - Jigmeling	25.16	+	
		Total	36.00	Error At Station/Auxiliary Consumption/Losses	0.19		

Note: Load summary on April 24, 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	598.07	262.96	254.77	309.95	8.19
2	Eastern Grid	36.00	59.12	58.93	2.04	0.19
Total	Total	634.07	322.08	313.70	311.99	8.38

Note: Load Summary on April 24, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	193.21	211.17	304.53
2	Eastern Grid	44.39	44.99	71.59
Total	National	237.60	256.16	376.12

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: April 25, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.43	400kV THP - Siliguri Fdr- I	162.09	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	159.86	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	178.38	400kV THP - Malbase Fdr- III	194.01	+	
		Unit- V	177.92	400kV Malbase - Siliguri	143.23	+	
		Unit- VI	0.00				
		Total	522.73	Error At Station/Auxiliary Consumption/Losses	6.77		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	53.68	+	Unit-I under AM.
		Unit- II	89.55	220kV CHP - Birpara Fdr- II	53.64	+	
		Unit- III	90.32	220kV CHP - Malbase Fdr- III	125.69	+	
		Unit- IV	90.08	220kV CHP - Semtokha Fdr- IV	21.73	+	
				220kV Malbase - Birpara Fdr.	-8.18	-	
				66kV CHP - Chumdo Fdr.	5.28	+	
				66kV CHP - Gedu Fdr.	7.13	+	
				3x3MVA, 66/11kV TFR	0.75	+	
		Total	269.95	Error At Station/Auxiliary Consumption/Losses	2.05		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	6.08	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby. □
		Unit- II	5.35	66kV BHP - Lobeysa Fdr.	8.49	+	
		Total	5.35	220kV BHP - Tsirang Fdr.	2.33	+	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.36	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.43	Error At Station/Auxiliary Consumption/Losses	0.52		
4	DHPC	Unit-I	17.28	220kV DHPC - Tsirang Fdr.	17.10	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.00	+	
		Total	17.28	Error At Station/Auxiliary Consumption/Losses	0.18		
5	KHP	Unit- I	14.41	132kV KHP - Nangkhor Fdr- I	48.64	+	
		Unit-II	14.21	132kV KHP - Kilikhar Fdr- II	3.00	+	
		Unit- III	15.69	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.16	132kV Gelephu - Salakati Fdr.	-1.56	-	
				132kV Motanga - Rangia Fdr.	28.40	+	
				220kV Tsirang - Jigmeling	18.14	+	
		Total	58.47	Error At Station/Auxiliary Consumption/Losses	6.53		

Note: Load summary on April 25, 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	827.74	245.28	235.76	564.32	9.52
2	Eastern Grid	58.47	49.77	43.24	26.84	6.53
	Total	886.21	295.05	279.00	591.16	16.05

Note: Load Summary on April 25, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	193.63	202.22	304.53
2	Eastern Grid	35.96	53.36	71.59
	National	229.59	255.58	376.12

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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