

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 17, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.03	400kV THP - Siliguri Fdr- I	204.80		Fdr-IV under shutdown. Unit-III under AM. Unit-IV standby.
		Unit- II	166.39	400kV THP - Siliguri Fdr- II	204.52	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	166.79	400kV THP - Malbase Fdr- III	250.99	+	
		Unit- V	166.88	400kV Malbase - Siliguri	181.87	+	
		Unit- VI	0.00				
		Total	666.09	Error At Station/Auxiliary Consumption/Losses	5.78		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	49.01	+	Unit-I under AM.
		Unit- II	91.16	220kV CHP - Birpara Fdr- II	49.03	+	
		Unit- III	90.37	220kV CHP - Malbase Fdr- III	100.94	+	
		Unit- IV	90.96	220kV CHP - Semtokha Fdr- IV	52.89	+	
				220kV Malbase - Birpara Fdr.	2.04	-	
				66kV CHP - Chumdo Fdr.	11.87	+	
				66kV CHP - Gedu Fdr.	5.55	+	
				3x3MVA, 66/11kV TFR	1.55	+	
		Total	272.49	Error At Station/Auxiliary Consumption/Losses	1.65		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.00	+	Upper Unit-I Standby. Lower Stage total shutdown.
		Unit- II	6.70	66kV BHP - Lobeysa Fdr.	5.42	+	
		Total	6.70	220kV BHP - Tsirang Fdr.	0.00	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	0.00	Error At Station/Auxiliary Consumption/Losses	0.38		
4	DHPC	Unit-I	23.33	220kV DHPC - Tsirang Fdr.	23.05	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	23.33	Error At Station/Auxiliary Consumption/Losses	0.28		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	38.94	+	Unit-I under AM.
		Unit-II	16.62	132kV KHP - Kilikhar Fdr- II	10.18	+	
		Unit- III	16.71	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.57	132kV Gelephu - Salakati Fdr.	-8.28	-	
				132kV Motanga - Rangia Fdr.	9.60	+	
				220kV Tsirang - Jigmeling	19.64	+	
		Total	49.90	Error At Station/Auxiliary Consumption/Losses	0.28		

Note: Load summary on April 17, 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	968.61	257.70	249.61	691.27	8.09
2	Eastern Grid	49.90	68.22	67.94	1.32	0.28
	Total	1,018.51	325.92	317.55	692.59	8.37

Note: Load Summary on April 17, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	284.98	284.98	304.53
2	Eastern Grid	60.87	60.87	71.59
	National	345.85	345.85	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.
 - 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 18, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.82	400kV THP - Siliguri Fdr- I	145.16		Fdr-IV under shutdown. Unit- III,VI under AM.
		Unit- II	108.27	400kV THP - Siliguri Fdr- II	142.07	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	81.22	400kV THP - Malbase Fdr- III	174.26	+	
		Unit- V	139.29	400kV Malbase - Siliguri	127.35	+	
		Unit- VI	0.00				
		Total	466.60	Error At Station/Auxiliary Consumption/Losses		5.11	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	42.29	+	Unit-I under AM.
		Unit- II	74.53	220kV CHP - Birpara Fdr- II	42.21	+	
		Unit- III	76.74	220kV CHP - Malbase Fdr- III	107.74	+	
		Unit- IV	78.04	220kV CHP - Semtokha Fdr- IV	22.50	+	
				220kV Malbase - Birpara Fdr.	-12.94	-	
				66kV CHP - Chumdo Fdr.	6.91	+	
				66kV CHP - Gedu Fdr.	5.90	+	
		Total	229.31	Error At Station/Auxiliary Consumption/Losses		0.82	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	16.48	+	Lower stage Unit-II Standby. Upper Stage and 66kV switchyard under shutdown. □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	0.00	+	
		Total	0.00	220kV BHP - Tsirang Fdr.		-12.32	
	BHP (L/S)	Unit- I	5.00	5MVA, 66/11kV TFR	0.00	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	5.00	Error At Station/Auxiliary Consumption/Losses		0.84	
4	DHPC	Unit-I	20.26	220kV DHPC - Tsirang Fdr.	20.00	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	20.26	Error At Station/Auxiliary Consumption/Losses		0.26	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	45.11	+	Unit-I under AM.
		Unit-II	16.63	132kV KHP - Kilikhar Fdr- II	3.94	+	
		Unit- III	16.65	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.61	132kV Gelephu - Salakati Fdr.	-5.05	+	
				132kV Motanga - Rangia Fdr.	15.00	+	
				220kV Tsirang - Jigmeling	5.98	+	
		Total	49.89	Error At Station/Auxiliary Consumption/Losses		0.54	

Note: Load summary on April 18, 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	721.17	229.05	222.02	486.14	7.03
2	Eastern Grid	49.89	45.92	45.38	9.95	0.54
Total		771.06	274.97	267.40	496.09	7.57

Note: Load Summary on April 18, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	246.89	284.06	304.53
2	Eastern Grid	31.76	61.21	71.59
National		278.65	345.27	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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