

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

Date: April 4, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00	+	Unit-III under annual maintenance. Unit IV & II Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown 400kV THP-SIL fdr II under shut down.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	25.04	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	133.18	+	
		Unit- V	78.97	400kV Malbase - Siliguri	4.65	+	
		Unit- VI	79.87				
		Total	158.84	Error At Station/Auxiliary Consumption/Losses	0.62		
2	CHP	Unit- I	39.53	220kV CHP - Birpara Fdr- I	8.58	+	Unit-II & IV under annual maintenance. 220kV CHP-SEM fdr under shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	8.51	+	
		Unit- III	43.75	220kV CHP - Malbase Fdr- III	39.25	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	0.00	+	
				220kV Malbase - Birpara Fdr.	-15.64	-	
				66kV CHP - Chumdo Fdr.	18.81	+	
				66kV CHP - Gedu Fdr.	5.58	+	
		Total	83.28	Error At Station/Auxiliary Consumption/Losses	0.91		
3	BHP (U/S)	Unit- I	4.09	220kV BHP - Semtokha Fdr.	40.08	+	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	12.26	+	
		Total	4.09	220kV BHP - Tsirang Fdr.	-41.27	-	
	BHP (L/S)	Unit- I	8.97	5MVA, 66/11kV TFR	1.11	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	8.97	Error At Station/Auxiliary Consumption/Losses	0.88		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	15.46	+	Unit-I Standby
		Unit-II	15.72	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.20	+	
		Total	15.72	Error At Station/Auxiliary Consumption/Losses	0.06		
5	KHP	Unit- I	16.05	132kV KHP - Nangkhor Fdr- I	22.38	+	Unit-III under maintenance. Unit-IV Standby.
		Unit-II	16.18	132kV KHP - Kilikhar Fdr- II	9.24	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-60.67	-	
				132kV Motanga - Rangia Fdr.	-2.36	-	
				220kV Tsirang - Jigmeling	-27.00	-	
		Total	32.23	Error At Station/Auxiliary Consumption/Losses	0.11		

Note: Load summary on April 04, 2018 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	270.90	266.76	264.29	31.14	2.47
2	Eastern Grid	32.23	68.26	68.15	-63.03	0.11
	Total	303.13	335.02	332.44	-31.89	2.58

Note: Load Summary on April 04, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	217.55	254.03	279.08
2	Eastern Grid	53.46	55.14	63.98
	National	271.01	309.17	338.53

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)
24-Feb-18	18:34hrs	375.23

Date: April 5, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00	+	Unit-III under annual maintenance. Unit-IV& II Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown. 400kV THP-SIL fdr II under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	33.29	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	125.14	+	
		Unit- V	80.59	400kV Malbase - Siliguri	17.33	+	
		Unit- VI	80.25				
		Total	160.84	Error At Station/Auxiliary Consumption/Losses	2.41		
2	CHP	Unit- I	38.99	220kV CHP - Birpara Fdr- I	2.40	+	Unit-II & IV under annual maintenance. 220kV CHP - Semtokha Fdr- IV Under Maintenance from 2/4/2018 till 8/4/2018.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.50	+	
		Unit- III	39.28	220kV CHP - Malbase Fdr- III	50.52	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	0.00	+	
				220kV Malbase - Birpara Fdr.	-34.99	-	
				66kV CHP - Chumdo Fdr.	11.34	+	
				66kV CHP - Gedu Fdr.	9.53	+	
				3x3MVA, 66/11kV TFR	0.62	+	
Total	78.27	Error At Station/Auxiliary Consumption/Losses	1.36				
3	BHP (U/S)	Unit- I	4.36	220kV BHP - Semtokha Fdr.	26.67	+	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.50	+	
		Total	4.36	220kV BHP - Tsirang Fdr.	-21.59	-	
	BHP (L/S)	Unit- I	9.17	5MVA, 66/11kV TFR	0.46	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	9.17	Error At Station/Auxiliary Consumption/Losses	-0.51		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.71	+	Unit-I Standby
		Unit-II	18.02	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.30	+	
		Total	18.02	Error At Station/Auxiliary Consumption/Losses	0.01		
5	KHP	Unit- I	16.21	132kV KHP - Nangkhor Fdr- I	28.40	+	Unit-IV standby Unit-III under maintenance
		Unit-II	16.19	132kV KHP - Kilikhar Fdr- II	3.42	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.35	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-26.91	-	
				132kV Motanga - Rangia Fdr.	6.92	+	
				220kV Tsirang - Jigmeling	5.04	+	
		Total	32.40	Error At Station/Auxiliary Consumption/Losses	0.23		

Note: Load summary on April 05, 2018 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	270.66	245.09	241.82	20.53	3.27
2	Eastern Grid	32.40	57.43	57.20	-19.99	0.23
	Total	303.06	302.52	299.02	0.54	3.50

Note: Load Summary on April 05, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.78	257.90	279.08
2	Eastern Grid	39.97	58.74	63.98
	National	279.75	316.64	342.69

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.