

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 3, 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 & V Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown 400kV THP-SIL fdr II under shut down.
		Unit- II	91.84	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	25.07	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	144.48	+	
		Unit- V	0.00	400kV Malbase - Siliguri	3.19	+	
		Unit- VI	80.36				
		Total	172.20	Error At Station/Auxiliary Consumption/Losses	2.65		
2	CHP	Unit- I	40.35	220kV CHP - Birpara Fdr- I	-8.25	-	Unit-II & IV under annual maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-8.25	-	
		Unit- III	44.54	220kV CHP - Malbase Fdr- III	17.29	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	55.54	+	
				220kV Malbase - Birpara Fdr.	-28.29	-	
				66kV CHP - Chumdo Fdr.	18.96	+	
				66kV CHP - Gedu Fdr.	5.53	+	
				3x3MVA, 66/11kV TFR	1.63	+	
		Total	84.89	Error At Station/Auxiliary Consumption/Losses	2.44		
3	BHP (U/S)	Unit- I	4.18	220kV BHP - Semtokha Fdr.	-13.51	+	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	11.56	+	
		Total	4.18	220kV BHP - Tsirang Fdr.	13.24	-	
	BHP (L/S)	Unit- I	8.29	5MVA, 66/11kV TFR	0.95	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	8.29	Error At Station/Auxiliary Consumption/Losses	0.23		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	15.77	+	Unit-I Standby
		Unit-II	16.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.20	+	
		Total	16.00	Error At Station/Auxiliary Consumption/Losses	0.03		
5	KHP	Unit- I	15.92	132kV KHP - Nangkhor Fdr- I	21.74	+	Unit-III under maintenance. Unit-IV Standby.
		Unit-II	15.96	132kV KHP - Kilikhar Fdr- II	9.42	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-22.85	-	
				132kV Motanga - Rangia Fdr.	5.77	+	
				220kV Tsirang - Jigmeling	25.11	+	
		Total	31.88	Error At Station/Auxiliary Consumption/Losses	0.12		

Note: Load summary on April 03, 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	285.56	276.98	271.63	-16.53	5.35
2	Eastern Grid	31.88	74.07	73.95	-17.08	0.12
	Total	317.44	351.05	345.58	-33.61	5.47

Note: Load Summary on April 03, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.71	257.45	279.08
2	Eastern Grid	57.11	57.11	63.98
	National	308.82	314.56	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.

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: 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& V Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown. 400kV THP-SIL fdr II under shutdown.
		Unit- II	78.44	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	31.63	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	123.74	+	
		Unit- V	0.00	400kV Malbase - Siliguri	15.28	+	
		Unit- VI	79.91				
		Total	158.35	Error At Station/Auxiliary Consumption/Losses	2.98		
2	CHP	Unit- I	39.48	220kV CHP - Birpara Fdr- I	3.42	+	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	3.35	+	
		Unit- III	38.44	220kV CHP - Malbase Fdr- III	48.36	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	0.00	+	
				220kV Malbase - Birpara Fdr.	-32.18	-	
				66kV CHP - Chumdo Fdr.	12.73	+	
				66kV CHP - Gedu Fdr.	8.69	+	
		Total	77.92	Error At Station/Auxiliary Consumption/Losses	0.38		
3	BHP (U/S)	Unit- I	3.99	220kV BHP - Semtokha Fdr.	28.22	+	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.15	+	
		Total	3.99	220kV BHP - Tsirang Fdr.	-24.68	-	
	BHP (L/S)	Unit- I	9.04	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	9.04	Error At Station/Auxiliary Consumption/Losses	-0.04		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.99	+	Unit-I Standby
		Unit-II	17.20	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.30	+	
		Total	17.20	Error At Station/Auxiliary Consumption/Losses	-0.09		
5	KHP	Unit- I	16.18	132kV KHP - Nangkhor Fdr- I	28.62	+	Unit-IV standby Unit-III under maintenance
		Unit-II	16.23	132kV KHP - Kilikhar Fdr- II	3.16	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.35	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-40.55	-	
				132kV Motanga - Rangia Fdr.	17.24	+	
				220kV Tsirang - Jigmeling	8.76	+	
		Total	32.41	Error At Station/Auxiliary Consumption/Losses	0.28		

Note: Load summary on April 04, 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	266.50	236.24	233.01	21.50	3.23
2	Eastern Grid	32.41	64.48	64.20	-23.31	0.28
	Total	298.91	300.72	297.21	-1.81	3.51

Note: Load Summary on April 04, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.36	254.03	279.08
2	Eastern Grid	45.08	55.14	63.98
	National	278.44	309.17	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.