

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 7, 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.IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	71.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	182.00	+	
		Unit- V	140.00	400kV Malbase - Siliguri	31.00	+	
		Unit- VI	120.00				
		<b>Total</b>	<b>260.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>7.00</b>	
2	CHP	Unit- I	54.00	220kV CHP - Birpara Fdr- I	0.50	-	Unit-II & IV under annual maintenance
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	0.40	-	
		Unit- III	59.00	220kV CHP - Malbase Fdr- III	26.40	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	59.00	+	
				220kV Malbase - Birpara Fdr.	-28.00	-	
				66kV CHP - Chumdo Fdr.	17.80	+	
				66kV CHP - Gedu Fdr.	5.70	+	
				3x3MVA, 66/11kV TFR	1.61	+	
		<b>Total</b>	<b>113.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.59</b>	
3	BHP (U/S)	Unit- I	4.40	220kV BHP - Semtokha Fdr.	-2.66	-	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.14	+	
		<b>Total</b>	<b>4.40</b>	220kV BHP - Tsirang Fdr.		4.50	
	BHP (L/S)	Unit- I	8.00	5MVA, 66/11kV TFR	0.99	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>8.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-0.57</b>	
4	DHPC	Unit-I	15.47	220kV DHPC - Tsirang Fdr.	15.21	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.20	+	
		<b>Total</b>	<b>15.47</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.06</b>	
5	KHP	Unit- I	15.31	132kV KHP - Nangkhor Fdr- I	20.05	+	Unit-III under maintenance. Unit-II Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.36	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	15.37	132kV Gelephu - Salakati Fdr.	-16.01	-	
				132kV Motanga - Rangia Fdr.	13.51	+	
				220kV Tsirang - Jigmeling	25.00	+	
		<b>Total</b>	<b>30.68</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.67</b>	

**Note: Load summary on April 07, 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	400.87	300.97	292.89	74.90	8.08
2	Eastern Grid	30.68	58.18	57.51	-2.50	0.67
	<b>Total</b>	431.55	359.15	350.40	72.40	8.75

**Note: Load Summary on April 07, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	89.38	243.12	279.08
2	Eastern Grid	59.03	59.03	63.98
	<b>National</b>	<b>148.41</b>	<b>302.15</b>	<b>338.53</b>

**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 8, 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 IV Standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	42.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	133.00	+	
		Unit- V	80.00	400kV Malbase - Siliguri	16.00	+	
		Unit- VI	100.00				
		<b>Total</b>	<b>180.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>5.00</b>	
2	CHP	Unit- I	43.00	220kV CHP - Birpara Fdr- I	0.00	-	Unit-II & IV under annual maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	0.00	-	
		Unit- III	48.00	220kV CHP - Malbase Fdr- III	32.70	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	34.60	+	
				220kV Malbase - Birpara Fdr.	-28.00	-	
				66kV CHP - Chumdo Fdr.	13.00	+	
				66kV CHP - Gedu Fdr.	6.90	+	
				3x3MVA, 66/11kV TFR	0.58	+	
		<b>Total</b>	<b>91.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>3.22</b>	
3	BHP (U/S)	Unit- I	5.60	220kV BHP - Semtokha Fdr.	-0.28	+	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	8.22	+	
		<b>Total</b>	<b>5.60</b>	220kV BHP - Tsirang Fdr.		5.00	
	BHP (L/S)	Unit- I	9.20	5MVA, 66/11kV TFR	0.95	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>9.20</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.91</b>	
4	DHPC	Unit-I	15.95	220kV DHPC - Tsirang Fdr.	15.77	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.00	+	
		<b>Total</b>	<b>15.95</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.18</b>	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	27.92	+	Unit-I standby Unit-III under maintenance
		Unit-II	16.52	132kV KHP - Kilikhar Fdr- II	4.31	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.35	+	
		Unit- IV	16.36	132kV Gelephu - Salakati Fdr.	-5.97	-	
				132kV Motanga - Rangia Fdr.	18.14	+	
				220kV Tsirang - Jigmeling	16.00	+	
		<b>Total</b>	<b>32.88</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.30</b>	

**Note: Load summary on April 08, 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	301.75	255.75	246.44	30.00	9.31
2	Eastern Grid	32.88	36.71	36.41	12.17	0.30
	<b>Total</b>	334.63	292.46	282.85	42.17	9.61

**Note: Load Summary on April 08, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	101.64	142.12	279.08
2	Eastern Grid	38.83	62.40	63.98
	<b>National</b>	<b>140.47</b>	<b>204.52</b>	<b>338.53</b>

**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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