

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 24, 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 & VI Standby. Unit-I under break down. 400kV THP-SIL fdr I breakdown
		Unit- II	96.84	400kV THP - Siliguri Fdr- II	32.27	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	31.37	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	152.13	+	
		Unit- V	119.62	400kV Malbase - Siliguri	6.20	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>216.46</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.69</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	4.50	+	Unit-I and III under annual maintenance .
		Unit- II	55.84	220kV CHP - Birpara Fdr- II	4.60	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	21.27	+	
		Unit- IV	62.89	220kV CHP - Semtokha Fdr- IV	69.48	+	
				220kV Malbase - Birpara Fdr.	-11.01	-	
				66kV CHP - Chumdo Fdr.	15.62	+	
				66kV CHP - Gedu Fdr.	3.49	+	
				3x3MVA, 66/11kV TFR	0.90	+	
		<b>Total</b>	<b>118.73</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-1.13</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	31.24	+	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.10	66kV BHP - Lobeysa Fdr.	9.42	+	
		<b>Total</b>	<b>4.10</b>	220kV BHP - Tsirang Fdr.		-33.86	
	BHP (L/S)	Unit- I	8.80	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>8.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>5.18</b>	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 30/04/2018
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>0.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.00</b>	
5	KHP	Unit- I	13.18	132kV KHP - Nangkhor Fdr- I	32.46	+	Unit-II shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.84	+	
		Unit- III	16.53	5MVA, 132/11kV TFR	0.12	+	
		Unit- IV	13.27	132kV Gelephu - Salakati Fdr.	0.00	+	
				132kV Motanga - Rangia Fdr.	30.80	+	
				220kV Tsirang - Jigmeling	30.20	+	
		<b>Total</b>	<b>42.98</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.56</b>	

**Note: Load summary on April 24, 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	348.09	249.96	245.22	67.93	4.74
2	Eastern Grid	42.98	42.38	41.82	30.80	0.56
	<b>Total</b>	391.07	292.34	287.04	98.73	5.30

**Note: Load Summary on April 24, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	279.08	279.08	279.08
2	Eastern Grid	59.45	59.45	63.98
	<b>National</b>	<b>338.53</b>	<b>338.53</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 25, 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 Standby. Unit-I under breakdown. Unit-V under maintenance. 400kV THP-SIL fdr I breakdown.
		Unit- II	99.53	400kV THP - Siliguri Fdr- II	44.44	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	39.98	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	140.73	+	
		Unit- V	0.00	400kV Malbase - Siliguri	21.77	+	
		Unit- VI	129.66				
		<b>Total</b>	<b>229.19</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>4.04</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	2.63	+	Unit-I& III under annual maintenance.
		Unit- II	45.67	220kV CHP - Birpara Fdr- II	2.77	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	40.94	+	
		Unit- IV	56.80	220kV CHP - Semtokha Fdr- IV	40.26	+	
				220kV Malbase - Birpara Fdr.	-25.35	-	
				66kV CHP - Chumdo Fdr.	10.23	+	
				66kV CHP - Gedu Fdr.	1.87	+	
				3x3MVA, 66/11kV TFR	0.63	+	
		<b>Total</b>	<b>102.47</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>3.14</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-13.76	-	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.20	66kV BHP - Lobeysa Fdr.	7.88	+	
		<b>Total</b>	<b>4.20</b>	220kV BHP - Tsirang Fdr.		17.76	
	BHP (L/S)	Unit- I	8.80	5MVA, 66/11kV TFR	0.84	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>8.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.28</b>	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 30/04/2018
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>0.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.00</b>	
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	43.89	+	Unit-II shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.42	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.27	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	1.40	+	
				132kV Motanga - Rangia Fdr.	34.00	+	
				220kV Tsirang - Jigmeling	18.03	+	
		<b>Total</b>	<b>49.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.92</b>	

**Note: Load summary on April 25, 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	344.66	240.39	232.93	86.24	7.46
2	Eastern Grid	49.50	32.13	31.21	35.40	0.92
	<b>Total</b>	394.16	272.52	264.14	121.64	8.38

**Note: Load Summary on April 25, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	247.53	273.61	279.08
2	Eastern Grid	35.73	58.01	63.98
	<b>National</b>	<b>283.26</b>	<b>331.62</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.