

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 13, 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 Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown & 400kV THP_SIL fdr.IV standby.
		Unit- II	107.74	400kV THP - Siliguri Fdr- II	47.12	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	156.71	+	
		Unit- V	0.00	400kV Malbase - Siliguri	20.27	+	
		Unit- VI	99.84				
		<b>Total</b>	<b>207.58</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>3.75</b>	
2	CHP	Unit- I	48.39	220kV CHP - Birpara Fdr- I	-3.93	-	Unit-II & IV under annual maintenance
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-4.19	-	
		Unit- III	52.04	220kV CHP - Malbase Fdr- III	18.79	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	67.98	+	
				220kV Malbase - Birpara Fdr.	-21.64	-	
				66kV CHP - Chumdo Fdr.	10.60	+	
				66kV CHP - Gedu Fdr.	8.20	+	
				3x3MVA, 66/11kV TFR	1.00	+	
		<b>Total</b>	<b>100.43</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.98</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-19.62	-	(U/S) Unit I & (L/S) Unit I Standby
		Unit- II	4.23	66kV BHP - Lobeysa Fdr.	11.69	+	
		<b>Total</b>	<b>4.23</b>	220kV BHP - Tsirang Fdr.		20.67	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	1.12	+	
		Unit- II	9.66	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>9.66</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.03</b>	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 26/04/2018
		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	16.57	132kV KHP - Nangkhor Fdr- I	39.00	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.42	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	16.27	132kV Gelephu - Salakati Fdr.	-15.79	-	
				132kV Motanga - Rangia Fdr.	21.40	+	
				220kV Tsirang - Jigmeling	17.82	+	
		<b>Total</b>	<b>49.45</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>5.33</b>	

**Note: Load summary on April 13, 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	321.90	266.45	260.69	37.63	5.76
2	Eastern Grid	49.45	61.66	56.33	5.61	5.33
	<b>Total</b>	371.35	328.11	317.02	43.24	11.09

**Note: Load Summary on April 13, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	268.30	268.30	279.08
2	Eastern Grid	60.61	60.61	63.98
	<b>National</b>	<b>328.91</b>	<b>328.91</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 14, 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 IV Standby.
		Unit- II	97.05	400kV THP - Siliguri Fdr- II	59.77	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	135.33	+	
		Unit- V	0.00	400kV Malbase - Siliguri	40.11	+	
		Unit- VI	99.62				
		<b>Total</b>	<b>196.67</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.57</b>		
2	CHP	Unit- I	48.62	220kV CHP - Birpara Fdr- I	-1.60	-	Unit-II & IV under annual maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-1.67	-	
		Unit- III	49.56	220kV CHP - Malbase Fdr- III	52.33	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	30.69	+	
				220kV Malbase - Birpara Fdr.	-42.60	-	
				66kV CHP - Chumdo Fdr.	4.32	+	
				66kV CHP - Gedu Fdr.	11.97	+	
		<b>Total</b>	<b>98.18</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.57</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.00	+	(U/S) Unit I& (L/S) Unit I Standby
		Unit- II	4.43	66kV BHP - Lobeysa Fdr.	8.22	+	
		<b>Total</b>	<b>4.43</b>	220kV BHP - Tsirang Fdr.	5.14	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	9.54	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>9.54</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.19</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00	+	DHPC units under shutdown till 26/04/2018
		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	16.22	132kV KHP - Nangkhor Fdr- I	44.68	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.42	+	
		Unit- III	16.43	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.35	132kV Gelephu - Salakati Fdr.	-13.72	-	
				132kV Motanga - Rangia Fdr.	13.47	+	
				220kV Tsirang - Jigmeling	4.17	+	
		<b>Total</b>	<b>49.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.40</b>		

**Note: Load summary on April 14, 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	308.82	250.64	247.31	54.01	3.33
2	Eastern Grid	49.00	53.42	53.82	-0.25	-0.40
	<b>Total</b>	357.82	304.06	301.13	53.76	2.93

**Note: Load Summary on April 14, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	231.49	274.73	279.08
2	Eastern Grid	42.84	60.55	63.98
	<b>National</b>	<b>274.33</b>	<b>335.28</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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