

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 22, 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-II & IV Standby. Unit-I under break down. 400kV THP-SIL fdr I breakdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	44.07	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	40.62	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	151.43	+	
		Unit- V	138.80	400kV Malbase - Siliguri	18.71	+	
		Unit- VI	99.58				
		<b>Total</b>	<b>238.38</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.26</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I under annual maintenance . Unit III under shutdown.
		Unit- II	62.79	220kV CHP - Birpara Fdr- II	-0.12	-	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	30.43	+	
		Unit- IV	67.87	220kV CHP - Semtokha Fdr- IV	75.19	+	
				220kV Malbase - Birpara Fdr.	-23.18	-	
				66kV CHP - Chumdo Fdr.	14.70	+	
				66kV CHP - Gedu Fdr.	7.26	+	
				3x3MVA, 66/11kV TFR	0.93	+	
		<b>Total</b>	<b>130.66</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.27</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-38.91	-	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.09	66kV BHP - Lobeysa Fdr.	9.07	+	
		<b>Total</b>	<b>4.09</b>	220kV BHP - Tsirang Fdr.	40.31	+	
	BHP (L/S)	Unit- I	8.75	5MVA, 66/11kV TFR	0.95	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>8.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.42</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	0.00	132kV KHP - Nangkhor Fdr- I	22.55	+	Unit I standby. Unit-II shutdown. 132kV GEL_SALA line under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.73	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.48	132kV Gelephu - Salakati Fdr.	0.00	+	
				132kV Motanga - Rangia Fdr.	13.64	+	
				220kV Tsirang - Jigmeling	38.00	+	
		<b>Total</b>	<b>33.07</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.29</b>		

**Note: Load summary on April 22, 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	381.88	263.78	257.83	80.10	5.95
2	Eastern Grid	33.07	57.43	57.14	13.64	0.29
	<b>Total</b>	414.95	321.21	314.97	93.74	6.24

**Note: Load Summary on April 22, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	243.55	256.16	279.08
2	Eastern Grid	53.05	53.05	63.98
	<b>National</b>	<b>296.60</b>	<b>309.21</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 23, 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-II & IV Standby. Unit-I under breakdown. 400kV THP-SIL fdr I breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	46.94	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	43.49	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	136.86	+	
		Unit- V	128.41	400kV Malbase - Siliguri	25.49	+	
		Unit- VI	100.98				
		<b>Total</b>	<b>229.39</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.10</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	4.10	+	Unit-I& III under annual maintenance.
		Unit- II	51.44	220kV CHP - Birpara Fdr- II	3.95	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	47.14	+	
		Unit- IV	59.68	220kV CHP - Semtokha Fdr- IV	34.58	+	
				220kV Malbase - Birpara Fdr.	-29.50	-	
				66kV CHP - Chumdo Fdr.	9.27	+	
				66kV CHP - Gedu Fdr.	9.93	+	
		<b>Total</b>	<b>111.12</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.67</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-11.08	-	(U/S) Unit I & (L/S) Unit I Standby
		Unit- II	4.20	66kV BHP - Lobeysa Fdr.	6.83	+	
		<b>Total</b>	<b>4.20</b>	220kV BHP - Tsirang Fdr.	17.39	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.39	+	
		<b>Total</b>	<b>8.92</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.41</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	16.28	132kV KHP - Nangkhor Fdr- I	44.74	+	Unit-II shutdown. 132kV Gelephu_Salakati line under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.66	+	
		Unit- III	16.40	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.38	132kV Gelephu - Salakati Fdr.	0.00	+	
				132kV Motanga - Rangia Fdr.	32.13	+	
				220kV Tsirang - Jigmeling	18.00	+	
		<b>Total</b>	<b>49.06</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.36</b>		

**Note: Load summary on April 23, 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	353.63	241.16	237.80	94.47	3.36
2	Eastern Grid	49.06	34.93	34.57	32.13	0.36
	<b>Total</b>	<b>402.69</b>	<b>276.09</b>	<b>272.37</b>	<b>126.60</b>	<b>3.72</b>

**Note: Load Summary on April 23, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.62	263.85	279.08
2	Eastern Grid	39.58	55.80	63.98
	<b>National</b>	<b>279.20</b>	<b>319.65</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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