

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

**Date:** June 1, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	120.00	400kV THP - Siliguri Fdr- I	78.00	+	Unit-III & V standby Unit IV under PTW
		Unit- II	140.00	400kV THP - Siliguri Fdr- II	78.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	74.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	160.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	54.00	+	
		Unit- VI	140.00				
		<b>Total</b>	<b>400.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>10.00</b>		
2	CHP	Unit- I	71.78	220kV CHP - Birpara Fdr- I	37.50	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	37.90	+	
		Unit- III	56.84	220kV CHP - Malbase Fdr- III	87.00	+	
		Unit- IV	70.20	220kV CHP - Semtokha Fdr- IV	19.30	+	
				220kV Malbase - Birpara Fdr.	-8.00	-	
				66kV CHP - Chumdo Fdr.	6.20	+	
				66kV CHP - Gedu Fdr.	6.21	+	
				3x3MVA, 66/11kV TFR	1.07	+	
		<b>Total</b>	<b>198.82</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.64</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	18.07	+	Upper stage unit I Standby AND Lower stage unit-II standby
		Unit- II	5.50	66kV BHP - Lobeysa Fdr.	10.37	+	
		<b>Total</b>	<b>5.50</b>	220kV BHP - Tsirang Fdr.	-12.30	-	
	BHP (L/S)	Unit- I	11.70	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>11.70</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.16</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.25	+	Unit-I Standby
		Unit-II	19.51	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>19.51</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		
5	KHP	Unit- I	12.22	132kV KHP - Nangkhor Fdr- I	41.98	+	132kV Mot-Rangia line under shutdown
		Unit-II	12.22	132kV KHP - Kilikhar Fdr- II	6.05	+	
		Unit- III	12.38	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.36	132kV Gelephu - Salakati Fdr.	19.70	+	
				132kV Motanga - Rangia Fdr.	0.00	+	
				220kV Tsirang - Jigmeling	12.28	+	
		<b>Total</b>	<b>49.18</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.85</b>		

**Note: Load summary on June 01, 2019 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	635.53	271.85	257.79	351.40	14.06
2	Eastern Grid	49.18	41.76	40.91	19.70	0.85
	<b>Total</b>	684.71	313.61	298.70	371.10	14.91

**Note: Load Summary on June 01, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	NA	NA	NA
2	Eastern Grid	NA	NA	NA
	<b>National</b>	#VALUE!	#VALUE!	#VALUE!

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)
27-Dec-18	18:18hrs	399.35MW

**Date:** June 2, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	79.39	400kV THP - Siliguri Fdr- I	61.13	+	Unit-III & V standby
		Unit- II	71.79	400kV THP - Siliguri Fdr- II	59.22	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	57.46	+	
		Unit- IV	71.05	400kV THP - Malbase Fdr- III	128.62	+	
		Unit- V	0.00	400kV Malbase - Siliguri	41.57	+	
		Unit- VI	90.97				
		<b>Total</b>	<b>313.20</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.77</b>		
2	CHP	Unit- I	54.00	220kV CHP - Birpara Fdr- I	28.91	+	Unit- II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	28.83	+	
		Unit- III	50.28	220kV CHP - Malbase Fdr- III	84.46	+	
		Unit- IV	58.40	220kV CHP - Semtokha Fdr- IV	13.49	+	
				220kV Malbase - Birpara Fdr.	-18.26	-	
				66kV CHP - Chumdo Fdr.	5.46	+	
				66kV CHP - Gedu Fdr.	5.54	+	
		<b>Total</b>	<b>162.68</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-4.77</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	2.14	+	Upper stage unit I Standby AND Lower stage unit-II standby
		Unit- II	5.60	66kV BHP - Lobeysa Fdr.	9.92	+	
		<b>Total</b>	<b>5.60</b>	220kV BHP - Tsirang Fdr.	6.18	+	
	BHP (L/S)	Unit- I	11.80	5MVA, 66/11kV TFR	0.25	+	
		<b>Total</b>	<b>11.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-1.09</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	15.30	+	Unit-I standby.
		Unit-II	16.05	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>16.05</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.75</b>		
5	KHP	Unit- I	13.02	132kV KHP - Nangkhor Fdr- I	50.00	+	132kV Mot-Rangia line under shutdown
		Unit-II	12.98	132kV KHP - Kilikhar Fdr- II	3.67	+	
		Unit- III	15.26	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.08	132kV Gelephu - Salakati Fdr.	22.07	+	
				132kV Motanga - Rangia Fdr.	0.00	+	
				220kV Tsirang - Jigmeling	6.30	+	
		<b>Total</b>	<b>54.34</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.27</b>		

**Note: Load summary on June 02, 2019 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	509.33	244.17	242.51	258.86	1.66
2	Eastern Grid	54.34	38.57	38.30	22.07	0.27
	<b>Total</b>	563.67	282.74	280.81	280.93	1.93

**Note: Load Summary on June 02, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	NA	NA	NA
2	Eastern Grid	NA	NA	NA
	<b>National</b>	#VALUE!	#VALUE!	#VALUE!

**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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