

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** June 12, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	140.11	400kV THP - Siliguri Fdr- I	107.99	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	106.74	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	140.13	400kV THP - Malbase Fdr- III	200.23	+	
		Unit- V	0.00	400kV Malbase - Siliguri	80.61	+	
		Unit- VI	142.04				
		<b>Total</b>	<b>422.28</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>7.32</b>		
2	CHP	Unit- I	64.58	220kV CHP - Birpara Fdr- I	38.30	+	Unit-III Standby
		Unit- II	70.34	220kV CHP - Birpara Fdr- II	38.21	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	68.92	+	
		Unit- IV	69.48	220kV CHP - Semtokha Fdr- IV	41.86	+	
				220kV Malbase - Birpara Fdr.	10.03	+	
				66kV CHP - Chumdo Fdr.	6.80	+	
				66kV CHP - Gedu Fdr.	6.97	+	
		<b>Total</b>	<b>204.40</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.25</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-8.66	-	Upper stage unit I Standby AND Lower stage unit-II standby
		Unit- II	6.50	66kV BHP - Lobeysa Fdr.	10.95	+	
		<b>Total</b>	<b>6.50</b>	220kV BHP - Tsirang Fdr.	17.34	+	
	BHP (L/S)	Unit- I	14.09	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>14.09</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	20.00	+	Unit-I Standby
		Unit-II	20.01	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>20.01</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.01</b>		
5	KHP	Unit- I	13.41	132kV KHP - Nangkhor Fdr- I	46.96	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	13.14	132kV KHP - Kilikhar Fdr- II	7.25	+	
		Unit- III	15.22	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	12.98	132kV Gelephu - Salakati Fdr.	-0.92	-	
				132kV Motanga - Rangia Fdr.	37.52	+	
				220kV Tsirang - Jigmeling	36.13	+	
		<b>Total</b>	<b>54.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.14</b>		

**Note: Load summary on June 12, 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	667.28	249.27	239.43	381.88	9.84
2	Eastern Grid	54.75	54.28	54.14	36.60	0.14
	<b>Total</b>	<b>722.03</b>	<b>303.55</b>	<b>293.57</b>	<b>418.48</b>	<b>9.98</b>

**Note: Load Summary on June 12, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	226.00	237.58	261.96
2	Eastern Grid	59.40	59.80	61.02
	<b>National</b>	<b>285.40</b>	<b>297.38</b>	<b>322.98</b>

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 13, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	139.06	400kV THP - Siliguri Fdr- I	88.97	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	87.36	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	101.26	400kV THP - Malbase Fdr- III	157.33	+	
		Unit- V	0.00	400kV Malbase - Siliguri	68.41	+	
		Unit- VI	100.80				
		<b>Total</b>	<b>341.12</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>7.46</b>		
2	CHP	Unit- I	59.98	220kV CHP - Birpara Fdr- I	35.84	+	Unit- III Standby
		Unit- II	55.78	220kV CHP - Birpara Fdr- II	35.99	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	85.40	+	
		Unit- IV	67.95	220kV CHP - Semtokha Fdr- IV	13.70	+	
				220kV Malbase - Birpara Fdr.	-5.56	-	
				66kV CHP - Chumdo Fdr.	3.22	+	
				66kV CHP - Gedu Fdr.	7.61	+	
				3x3MVA, 66/11kV TFR	0.71	+	
		<b>Total</b>	<b>183.71</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.24</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	8.37	+	Upper stage unit I Standby AND Lower stage unit-II standby
		Unit- II	8.31	66kV BHP - Lobeysa Fdr.	9.07	+	
		<b>Total</b>	<b>8.31</b>	220kV BHP - Tsirang Fdr.	6.28	+	
	BHP (L/S)	Unit- I	15.76	5MVA, 66/11kV TFR	0.44	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>15.76</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.09</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.60	+	Unit-I standby.
		Unit-II	22.80	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>22.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
5	KHP	Unit- I	16.22	132kV KHP - Nangkhor Fdr- I	59.05	+	<b>NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER</b>
		Unit-II	16.20	132kV KHP - Kilikhar Fdr- II	3.64	+	
		Unit- III	15.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.04	132kV Gelephu - Salakati Fdr.	9.05	+	
				132kV Motanga - Rangia Fdr.	41.46	+	
				220kV Tsirang - Jigmeling	26.58	+	
		<b>Total</b>	<b>63.46</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.37</b>		

**Note: Load summary on June 13, 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	571.70	234.11	225.30	311.01	8.81
2	Eastern Grid	63.46	39.53	39.16	50.51	0.37
	<b>Total</b>	635.16	273.64	264.46	361.52	9.18

**Note: Load Summary on June 13, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	197.66	240.09	261.96
2	Eastern Grid	45.04	52.97	61.02
	<b>National</b>	<b>242.70</b>	<b>293.06</b>	<b>322.98</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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