

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** June 11, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	140.23	400kV THP - Siliguri Fdr- I	132.92	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	131.06	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	170.54	400kV THP - Malbase Fdr- III	206.58	+	
		Unit- V	0.00	400kV Malbase - Siliguri	107.48	+	
		Unit- VI	169.91				
		<b>Total</b>	<b>480.68</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>10.12</b>		
2	CHP	Unit- I	79.69	220kV CHP - Birpara Fdr- I	44.17	+	Unit-III Standby
		Unit- II	78.77	220kV CHP - Birpara Fdr- II	44.32	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	86.82	+	
		Unit- IV	80.16	220kV CHP - Semtokha Fdr- IV	46.80	+	
				220kV Malbase - Birpara Fdr.	5.82	+	
				66kV CHP - Chumdo Fdr.	7.62	+	
				66kV CHP - Gedu Fdr.	6.53	+	
		<b>Total</b>	<b>238.62</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.27</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-9.60	-	Upper stage unit I Standby AND Lower stage unit-II standby
		Unit- II	6.30	66kV BHP - Lobeysa Fdr.	11.01	+	
		<b>Total</b>	<b>6.30</b>	220kV BHP - Tsirang Fdr.	16.04	+	
	BHP (L/S)	Unit- I	12.50	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.73</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	26.80	+	Unit-I Standby
		Unit-II	27.03	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>27.03</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	16.48	132kV KHP - Nangkhor Fdr- I	57.89	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.58	132kV KHP - Kilikhar Fdr- II	7.59	+	
		Unit- III	16.43	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.45	132kV Gelephu - Salakati Fdr.	5.74	+	
				132kV Motanga - Rangia Fdr.	39.44	+	
				220kV Tsirang - Jigmeling	40.72	+	
		<b>Total</b>	<b>65.94</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.06</b>		

**Note: Load summary on June 11, 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	765.13	258.64	246.29	465.77	12.35
2	Eastern Grid	65.94	61.48	61.42	45.18	0.06
<b>Total</b>		<b>831.07</b>	<b>320.12</b>	<b>307.71</b>	<b>510.95</b>	<b>12.41</b>

**Note: Load Summary on June 11, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.04	245.04	261.96
2	Eastern Grid	51.44	51.81	61.02
<b>National</b>		<b>288.48</b>	<b>296.85</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 12, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.65	400kV THP - Siliguri Fdr- I	87.30	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	86.55	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	100.68	400kV THP - Malbase Fdr- III	160.62	+	
		Unit- V	0.00	400kV Malbase - Siliguri	65.57	+	
		Unit- VI	100.55				
		<b>Total</b>	<b>339.88</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.41</b>		
2	CHP	Unit- I	56.15	220kV CHP - Birpara Fdr- I	27.07	+	Unit- III Standby
		Unit- II	51.15	220kV CHP - Birpara Fdr- II	27.11	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	79.00	+	
		Unit- IV	66.89	220kV CHP - Semtokha Fdr- IV	28.15	+	
				220kV Malbase - Birpara Fdr.	-16.62	-	
				66kV CHP - Chumdo Fdr.	4.34	+	
				66kV CHP - Gedu Fdr.	7.03	+	
				3x3MVA, 66/11kV TFR	0.77	+	
		<b>Total</b>	<b>174.19</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.72</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-0.95	-	Upper stage unit I Standby AND Lower stage unit-II standby
		Unit- II	5.50	66kV BHP - Lobeysa Fdr.	7.29	+	
		<b>Total</b>	<b>5.50</b>	220kV BHP - Tsirang Fdr.	9.98	+	
	BHP (L/S)	Unit- I	10.80	5MVA, 66/11kV TFR	0.59	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.61</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.58	+	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>0.22</b>		
5	KHP	Unit- I	14.18	132kV KHP - Nangkhor Fdr- I	52.96	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	14.20	132kV KHP - Kilikhar Fdr- II	3.62	+	
		Unit- III	15.19	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	14.04	132kV Gelephu - Salakati Fdr.	2.97	+	
				132kV Motanga - Rangia Fdr.	34.66	+	
				220kV Tsirang - Jigmeling	30.20	+	
		<b>Total</b>	<b>57.61</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.63</b>		

**Note: Load summary on June 12, 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	553.17	245.99	240.25	276.98	5.74
2	Eastern Grid	57.61	50.18	49.55	37.63	0.63
	<b>Total</b>	610.78	296.17	289.80	314.61	6.37

**Note: Load Summary on June 12, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	212.23	237.58	261.96
2	Eastern Grid	39.08	59.80	61.02
	<b>National</b>	<b>251.31</b>	<b>297.38</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.
  - ii) The clocks of all the locations are not synchronized
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