

## 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:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.78	400kV THP - Siliguri Fdr- I	110.61	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	110.74	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	140.51	400kV THP - Malbase Fdr- III	191.78	+	
		Unit- V	0.00	400kV Malbase - Siliguri	85.46	+	
		Unit- VI	140.64				
		<b>Total</b>	<b>419.93</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.80</b>		
2	CHP	Unit- I	70.92	220kV CHP - Birpara Fdr- I	43.50	+	Unit-III Standby
		Unit- II	75.14	220kV CHP - Birpara Fdr- II	43.19	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	80.43	+	
		Unit- IV	74.91	220kV CHP - Semtokha Fdr- IV	36.83	+	
				220kV Malbase - Birpara Fdr.	10.05	+	
				66kV CHP - Chumdo Fdr.	6.40	+	
				66kV CHP - Gedu Fdr.	7.01	+	
				3x3MVA, 66/11kV TFR	1.07	+	
		<b>Total</b>	<b>220.97</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.54</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-4.80	-	Upper stage unit I Standby AND Lower stage unit-I standby
		Unit- II	7.71	66kV BHP - Lobeysa Fdr.	10.74	+	
		<b>Total</b>	<b>7.71</b>	220kV BHP - Tsirang Fdr.	13.93	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.65	+	
		Unit- II	13.08	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>13.08</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.27</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.23	+	Unit-I Standby
		Unit-II	21.43	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>21.43</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
5	KHP	Unit- I	14.30	132kV KHP - Nangkhor Fdr- I	49.93	+	<b>NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER</b>
		Unit-II	14.14	132kV KHP - Kilikhar Fdr- II	7.32	+	
		Unit- III	15.47	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	14.22	132kV Gelephu - Salakati Fdr.	5.35	-	
				132kV Motanga - Rangia Fdr.	37.14	+	
				220kV Tsirang - Jigmeling	33.90	+	
		<b>Total</b>	<b>58.13</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.48</b>		

**Note: Load summary on June 13, 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	683.12	245.67	235.86	403.55	9.81
2	Eastern Grid	58.13	49.54	49.06	42.49	0.48
	<b>Total</b>	741.25	295.21	284.92	446.04	10.29

**Note: Load Summary on June 13, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	240.09	240.09	261.96
2	Eastern Grid	52.97	52.97	61.02
	<b>National</b>	<b>293.06</b>	<b>293.06</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 14, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.30	400kV THP - Siliguri Fdr- I	76.21	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	76.17	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	100.91	400kV THP - Malbase Fdr- III	142.34	+	
		Unit- V	0.00	400kV Malbase - Siliguri	56.18	+	
		Unit- VI	100.89				
		<b>Total</b>	<b>301.10</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>6.38</b>	
2	CHP	Unit- I	58.74	220kV CHP - Birpara Fdr- I	33.45	+	Unit- III Standby
		Unit- II	59.31	220kV CHP - Birpara Fdr- II	33.59	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	81.71	+	
		Unit- IV	63.56	220kV CHP - Semtokha Fdr- IV	19.48	+	
				220kV Malbase - Birpara Fdr.	-7.78	-	
				66kV CHP - Chumdo Fdr.	3.77	+	
				66kV CHP - Gedu Fdr.	7.50	+	
				3x3MVA, 66/11kV TFR	0.56	+	
		<b>Total</b>	<b>181.61</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.55</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	5.61	+	Upper stage unit I Standby AND Lower stage unit-I standby
		Unit- II	6.28	66kV BHP - Lobeysa Fdr.	8.97	+	
		<b>Total</b>	<b>6.28</b>	220kV BHP - Tsirang Fdr.		2.81	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.55	+	
		Unit- II	11.73	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>11.73</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.07</b>	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.00	+	Unit-I standby.
		Unit-II	19.20	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>19.20</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.20</b>	
5	KHP	Unit- I	16.46	132kV KHP - Nangkhor Fdr- I	61.65	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.67	132kV KHP - Kilikhar Fdr- II	3.63	+	
		Unit- III	16.46	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.58	132kV Gelephu - Salakati Fdr.	7.07	+	
				132kV Motanga - Rangia Fdr.	31.48	+	
				220kV Tsirang - Jigmeling	18.81	+	
		<b>Total</b>	<b>66.17</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.49</b>	

**Note: Load summary on June 14, 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	519.92	233.29	225.09	267.82	8.20
2	Eastern Grid	66.17	46.43	45.94	38.55	0.49
<b>Total</b>		586.09	279.72	271.03	306.37	8.69

**Note: Load Summary on June 14, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	224.66	236.91	261.96
2	Eastern Grid	29.85	52.96	61.02
<b>National</b>		<b>254.51</b>	<b>289.87</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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