

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** June 7, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.03	400kV THP - Siliguri Fdr- I	109.40	+	400kV THP - Siliguri Fdr III Standby, Unit-III,IV & V standby
		Unit- II	140.74	400kV THP - Siliguri Fdr- II	109.87	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	193.21	+	
		Unit- V	0.00	400kV Malbase - Siliguri	83.28	+	
		Unit- VI	139.83				
		<b>Total</b>	<b>418.60</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.12</b>		
2	CHP	Unit- I	63.12	220kV CHP - Birpara Fdr- I	30.26	+	Unit-III Standby
		Unit- II	49.49	220kV CHP - Birpara Fdr- II	30.33	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	73.28	+	
		Unit- IV	74.10	220kV CHP - Semtokha Fdr- IV	36.65	+	
				220kV Malbase - Birpara Fdr.	-6.95	+	
				66kV CHP - Chumdo Fdr.	7.12	+	
				66kV CHP - Gedu Fdr.	6.40	+	
				3x3MVA, 66/11kV TFR	1.09	+	
		<b>Total</b>	<b>186.71</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.58</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	4.96	+	Upper stage unit I & Lower stage unit-II standby
		Unit- II	7.20	66kV BHP - Lobeysa Fdr.	10.16	+	
		<b>Total</b>	<b>7.20</b>	220kV BHP - Tsirang Fdr.	4.58	+	
	BHP (L/S)	Unit- I	13.10	5MVA, 66/11kV TFR	0.91	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>13.10</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.31</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	20.55	+	Unit-I Standby
		Unit-II	20.83	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>20.83</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.28</b>		
5	KHP	Unit- I	16.52	132kV KHP - Nangkhor Fdr- I	57.19	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.62	132kV KHP - Kilikhar Fdr- II	8.40	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.36	132kV Gelephu - Salakati Fdr.	0.03	+	
				132kV Motanga - Rangia Fdr.	41.58	+	
				220kV Tsirang - Jigmeling	29.15	+	
		<b>Total</b>	<b>66.11</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.12</b>		

**Note: Load summary on June 07, 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	646.44	261.10	253.43	356.19	7.67
2	Eastern Grid	66.11	53.65	53.53	41.61	0.12
	<b>Total</b>	712.55	314.75	306.96	397.80	7.79

**Note: Load Summary on June 07, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	234.32	235.82	261.96
2	Eastern Grid	61.02	61.02	61.02
	<b>National</b>	<b>295.34</b>	<b>296.84</b>	<b>322.98</b>

**NOTE**

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 8, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.86	400kV THP - Siliguri Fdr- I	92.27	+	400kV THP_Siliguri Fdr- IV Standby. Unit-IV,V & III standby
		Unit- II	69.40	400kV THP - Siliguri Fdr- II	91.26	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	158.68	+	
		Unit- V	0.00	400kV Malbase - Siliguri	71.46	+	
		Unit- VI	140.00				
		<b>Total</b>	<b>348.26</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.05</b>		
2	CHP	Unit- I	65.19	220kV CHP - Birpara Fdr- I	32.51	+	Unit-III Standby
		Unit- II	57.73	220kV CHP - Birpara Fdr- II	32.64	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	90.29	+	
		Unit- IV	65.10	220kV CHP - Semtokha Fdr- IV	19.08	+	
				220kV Malbase - Birpara Fdr.	-16.30	-	
				66kV CHP - Chumdo Fdr.	4.94	+	
				66kV CHP - Gedu Fdr.	7.08	+	
				3x3MVA, 66/11kV TFR	0.70	+	
		<b>Total</b>	<b>188.02</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.78</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	8.61	+	Upper stage unit I & Lower stage unit-II standby
		Unit- II	6.60	66kV BHP - Lobeysa Fdr.	10.13	+	
		<b>Total</b>	<b>6.60</b>	220kV BHP - Tsirang Fdr.	0.00		
	BHP (L/S)	Unit- I	12.20	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.20</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.86</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	25.11	+	Unit-I standby.
		Unit-II	25.38	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>25.38</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.27</b>		
5	KHP	Unit- I	16.42	132kV KHP - Nangkhor Fdr- I	61.15	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.54	132kV KHP - Kilikhar Fdr- II	4.34	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.43	132kV Gelephu - Salakati Fdr.	10.66	+	
				132kV Motanga - Rangia Fdr.	38.86	+	
				220kV Tsirang - Jigmeling	23.12	+	
		<b>Total</b>	<b>65.98</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.09</b>		

**Note: Load summary on June 08, 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	580.46	253.50	247.26	303.84	6.24
2	Eastern Grid	65.98	39.58	39.49	49.52	0.09
	<b>Total</b>	646.44	293.08	286.75	353.36	6.33

**Note: Load Summary on June 08, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	209.69	247.93	261.96
2	Eastern Grid	38.47	60.98	61.02
	<b>National</b>	<b>248.16</b>	<b>308.91</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
2. This report is generated to give an idea of the generation & load flow for the system at a particular instant.