

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** May 13, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	117.57	400kV THP - Siliguri Fdr- I	0.00	+	Unit-IV AMP Unit-VI Standby 400kV THP_SIL fdr I & II under breakdown
		Unit- II	107.40	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	141.77	400kV THP - Siliguri Fdr- IV	183.27	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	278.20	+	
		Unit- V	98.94	400kV Malbase - Siliguri	161.37	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>465.68</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.21</b>		
2	CHP	Unit- I	78.77	220kV CHP - Birpara Fdr- I	42.86	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	43.00	+	
		Unit- III	72.85	220kV CHP - Malbase Fdr- III	82.11	+	
		Unit- IV	76.90	220kV CHP - Semtokha Fdr- IV	34.87	+	
				220kV Malbase - Birpara Fdr.	6.79	+	
				66kV CHP - Chumdo Fdr.	17.84	+	
				66kV CHP - Gedu Fdr.	4.39	+	
				3x3MVA, 66/11kV TFR	1.35	+	
		<b>Total</b>	<b>228.52</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.10</b>		
3	BHP (U/S)	Unit- I	5.15	220kV BHP - Semtokha Fdr.	-3.03	-	Upper stage unit II & lower stage unit-I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.93	+	
		<b>Total</b>	<b>5.15</b>	220kV BHP - Tsirang Fdr.	7.73	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.83	+	
		Unit- II	10.58	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.58</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.27</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	19.00	+	Unit-I Standby
		Unit-II	19.23	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>19.23</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	12.32	132kV KHP - Nangkhor Fdr- I	40.77	+	
		Unit-II	12.31	132kV KHP - Kilikhar Fdr- II	8.40	+	
		Unit- III	13.43	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	12.01	132kV Gelephu - Salakati Fdr.	-4.32	-	
				132kV Motanga - Rangia Fdr.	14.01	+	
				220kV Tsirang - Jigmeling	25.54	+	
		<b>Total</b>	<b>50.07</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.30</b>		

**Note: Load summary on May 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	729.16	266.33	259.52	437.29	6.81
2	Eastern Grid	50.07	65.92	65.62	9.69	0.30
	<b>Total</b>	779.23	332.25	325.14	446.98	7.11

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	252.12	252.12	270.60
2	Eastern Grid	61.94	61.94	62.83
	<b>National</b>	<b>314.06</b>	<b>314.06</b>	<b>333.43</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.

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** May 14, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	98.47	400kV THP - Siliguri Fdr- I	0.00	+	Unit-IV AMP Unit-VI Standby 400kV THP_SIL I & II under breakdown.
		Unit- II	79.16	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	100.77	400kV THP - Siliguri Fdr- IV	151.34		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	222.32	+	
		Unit- V	99.19	400kV Malbase - Siliguri	134.80	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>377.59</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>3.93</b>	
2	CHP	Unit- I	66.28	220kV CHP - Birpara Fdr- I	43.27	+	Unit-III Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	43.14	+	
		Unit- III	66.82	220kV CHP - Malbase Fdr- III	93.57	+	
		Unit- IV	70.92	220kV CHP - Semtokha Fdr- IV	11.12	+	
				220kV Malbase - Birpara Fdr.	-1.35	-	
				66kV CHP - Chumdo Fdr.	4.13	+	
				66kV CHP - Gedu Fdr.	7.23	+	
				3x3MVA, 66/11kV TFR	0.71	+	
		<b>Total</b>	<b>204.02</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.85</b>	
3	BHP (U/S)	Unit- I	5.11	220kV BHP - Semtokha Fdr.	9.95	+	Upper stage unit II & lower stage unit-I Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	7.58	+	
		<b>Total</b>	<b>5.11</b>	220kV BHP - Tsirang Fdr.		-2.00	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.36	+	
		Unit- II	10.67	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.67</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-0.11</b>	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.11	+	Unit-I standby.
		Unit-II	17.30	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>17.30</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.19</b>	
5	KHP	Unit- I	15.10	132kV KHP - Nangkhor Fdr- I	56.07	+	
		Unit-II	15.13	132kV KHP - Kilikhar Fdr- II	3.91	+	
		Unit- III	15.15	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	15.14	132kV Gelephu - Salakati Fdr.	0.22	+	
				132kV Motanga - Rangia Fdr.	21.77	+	
				220kV Tsirang - Jigmeling	14.54	+	
		<b>Total</b>	<b>60.52</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.04</b>	

**Note: Load summary on May 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	614.69	228.95	224.09	371.20	4.86
2	Eastern Grid	60.52	53.07	53.03	21.99	0.04
	<b>Total</b>	675.21	282.02	277.12	393.19	4.90

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.93	259.85	270.60
2	Eastern Grid	42.33	58.58	62.83
	<b>National</b>	276.26	318.43	333.43

**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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