

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** May 25, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.34	400kV THP - Siliguri Fdr- I	109.43	+	Unit-IV & V AMP, 400kV THP_SIL II Anti-Theft Charge Unit-III Standby
		Unit- II	140.03	400kV THP - Siliguri Fdr- II			
		Unit- III		400kV THP - Siliguri Fdr- IV	104.63	+	
		Unit- IV		400kV THP - Malbase Fdr- III	159.04	+	
		Unit- V		400kV Malbase - Siliguri	90.48	+	
		Unit- VI	140.33				
		<b>Total</b>	<b>379.70</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.60</b>		
2	CHP	Unit- I	56.74	220kV CHP - Birpara Fdr- I	35.03	+	Unit-II Standby
		Unit- II		220kV CHP - Birpara Fdr- II	35.08	+	
		Unit- III	60.19	220kV CHP - Malbase Fdr- III	90.58	+	
		Unit- IV	59.55	220kV CHP - Semtokha Fdr- IV	-1.38	-	
				220kV Malbase - Birpara Fdr.	-11.98	-	
				66kV CHP - Chumdo Fdr.	8.36	+	
				66kV CHP - Gedu Fdr.	4.81	+	
				3x3MVA, 66/11kV TFR	1.16	+	
		<b>Total</b>	<b>176.48</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.84</b>		
3	BHP (U/S)	Unit- I		220kV BHP - Semtokha Fdr.	12.27	+	Upper stage unit I & lower stage unit-II Standby
		Unit- II	5.75	66kV BHP - Lobeysa Fdr.	6.95	+	
		<b>Total</b>	<b>5.75</b>	220kV BHP - Tsirang Fdr.	-2.47	+	
	BHP (L/S)	Unit- I	12.02	5MVA, 66/11kV TFR	0.43	+	
		Unit- II		30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.02</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.59</b>		
4	DHPC	Unit-I		220kV DHPC - Tsirang Fdr.	21.74	+	Unit-I Standby
		Unit-II	21.95	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>21.95</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.21</b>		
5	KHP	Unit- I	15.14	132kV KHP - Nangkhor Fdr- I	57.31	+	
		Unit-II	15.26	132kV KHP - Kilikhar Fdr- II	3.87	+	
		Unit- III	16.35	5MVA, 132/11kV TFR	0.12	+	
		Unit- IV	15.09	132kV Gelephu - Salakati Fdr.	5.71	+	
				132kV Motanga - Rangia Fdr.	20.74	+	
				220kV Tsirang - Jigmeling	18.82	+	
		<b>Total</b>	<b>61.84</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.54</b>		

**Note: Load summary on May 25, 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	595.90	214.41	204.17	362.67	10.24
2	Eastern Grid	61.84	54.21	53.67	26.45	0.54
	<b>Total</b>	657.74	268.62	257.84	389.12	10.78

**Note: Load Summary on May 25, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	241.89	251.68	270.60
2	Eastern Grid	55.27	55.27	62.83
	<b>National</b>	<b>297.16</b>	<b>306.95</b>	<b>333.43</b>

### NOTES BHP LOADS COLLECTED FROM SITE

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 26, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I		400kV THP - Siliguri Fdr- I	151.00	+	Unit-IV & V AMP, 400kV THP_SIL II Anti-Theft Charge Unit-I under breakdown
		Unit- II	187.00	400kV THP - Siliguri Fdr- II			
		Unit- III	187.00	400kV THP - Siliguri Fdr- IV	145.00	+	
		Unit- IV		400kV THP - Malbase Fdr- III	207.00	+	
		Unit- V		400kV Malbase - Siliguri	126.00	+	
		Unit- VI	140.00				
		<b>Total</b>	<b>514.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>11.00</b>		
2	CHP	Unit- I	69.00	220kV CHP - Birpara Fdr- I	39.60	+	Unit- II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	39.70	+	
		Unit- III	66.00	220kV CHP - Malbase Fdr- III	93.10	+	
		Unit- IV	70.00	220kV CHP - Semtokha Fdr- IV	15.40	+	
				220kV Malbase - Birpara Fdr.	-8.00	-	
				66kV CHP - Chumdo Fdr.	11.80	+	
				66kV CHP - Gedu Fdr.	4.60	+	
				3x3MVA, 66/11kV TFR	0.92	+	
		<b>Total</b>	<b>205.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.12</b>		
3	BHP (U/S)	Unit- I		220kV BHP - Semtokha Fdr.	8.50	+	Upper stage unit I & lower stage unit-II Standby
		Unit- II	5.60	66kV BHP - Lobeysa Fdr.	8.35	+	
		<b>Total</b>	<b>5.60</b>	220kV BHP - Tsirang Fdr.	-0.44	-	
	BHP (L/S)	Unit- I	11.60	5MVA, 66/11kV TFR	0.91	+	
		Unit- II		30MVA ICT, 220/66kV			
		<b>Total</b>	<b>11.60</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.12</b>		
4	DHPC	Unit-I		220kV DHPC - Tsirang Fdr.	22.62	+	Unit-I standby.
		Unit-II	22.82	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>22.82</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	61.03	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	4.31	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	6.00	+	
				132kV Motanga - Rangia Fdr.	37.30	+	
				220kV Tsirang - Jigmeling	19.88	+	
		<b>Total</b>	<b>66.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.36</b>		

**Note: Load summary on May 26, 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	759.02	245.84	234.88	493.30	10.96
2	Eastern Grid	66.00	42.58	42.22	43.30	0.36
	<b>Total</b>	825.02	288.42	277.10	536.60	11.32

**Note: Load Summary on May 26, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	203.11	252.91	270.60
2	Eastern Grid	41.97	56.08	62.83
	<b>National</b>	<b>245.08</b>	<b>308.99</b>	<b>333.43</b>

**NOTES ALL WESTERN AND EASTERN LOADS COLLECTED FROM SITE**

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.