

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** May 8, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.51	400kV THP - Siliguri Fdr- I	124.14	+	Unit-IV AMP Unit-V Standby 400kV THP_SIL IV Standby
		Unit- II	96.09	400kV THP - Siliguri Fdr- II	124.08	+	
		Unit- III	101.50	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	221.39	+	
		Unit- V	0.00	400kV Malbase - Siliguri	95.07	+	
		Unit- VI	139.35				
		<b>Total</b>	<b>475.45</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.84</b>		
2	CHP	Unit- I	82.07	220kV CHP - Birpara Fdr- I	46.75	+	Unit III Standby
		Unit- II	85.56	220kV CHP - Birpara Fdr- II	46.49	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	88.38	+	
		Unit- IV	80.90	220kV CHP - Semtokha Fdr- IV	48.42	+	
				220kV Malbase - Birpara Fdr.	8.40	+	
				66kV CHP - Chumdo Fdr.	7.97	+	
				66kV CHP - Gedu Fdr.	7.07	+	
		<b>Total</b>	<b>248.53</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.07</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-11.40	-	Upper stage & lower stage unit-I Standby
		Unit- II	6.06	66kV BHP - Lobeysa Fdr.	11.08	+	
		<b>Total</b>	<b>6.06</b>	220kV BHP - Tsirang Fdr.	18.29	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.69	+	
		Unit- II	12.57	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.57</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.03</b>		
4	DHPC	Unit-I	20.27	220kV DHPC - Tsirang Fdr.	20.05	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>20.27</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
5	KHP	Unit- I	15.03	132kV KHP - Nangkhor Fdr- I	51.50	+	
		Unit-II	15.25	132kV KHP - Kilikhar Fdr- II	8.21	+	
		Unit- III	15.10	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.21	132kV Gelephu - Salakati Fdr.	-1.44	-	
				132kV Motanga - Rangia Fdr.	30.35	+	
				220kV Tsirang - Jigmeling	36.89	+	
		<b>Total</b>	<b>60.59</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.48</b>		

**Note: Load summary on May 08, 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	762.88	281.06	272.96	444.93	8.10
2	Eastern Grid	60.59	68.57	68.09	28.91	0.48
	<b>Total</b>	823.47	349.63	341.05	473.84	8.58

**Note: Load Summary on May 08, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.54	236.00	270.60
2	Eastern Grid	54.94	59.49	62.83
	<b>National</b>	<b>290.48</b>	<b>295.49</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 9, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.37	400kV THP - Siliguri Fdr- I	137.39	+	Unit-IV AMP Unit-V Standby 400kV THP_SIL IV Standby
		Unit- II	99.74	400kV THP - Siliguri Fdr- II	138.81	+	
		Unit- III	101.66	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	199.98	+	
		Unit- V	0.00	400kV Malbase - Siliguri	113.22	+	
		Unit- VI	139.36				
		<b>Total</b>	<b>479.13</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.95</b>		
2	CHP	Unit- I	89.07	220kV CHP - Birpara Fdr- I	57.51	+	Unit-III Standby
		Unit- II	89.99	220kV CHP - Birpara Fdr- II	57.59	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	116.23	+	
		Unit- IV	89.52	220kV CHP - Semtokha Fdr- IV	22.52	+	
				220kV Malbase - Birpara Fdr.	4.80	+	
				66kV CHP - Chumdo Fdr.	4.99	+	
				66kV CHP - Gedu Fdr.	6.64	+	
				3x3MVA, 66/11kV TFR	0.78	+	
		<b>Total</b>	<b>268.58</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.32</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	3.29	+	Upper stage & lower stage unit-I Standby
		Unit- II	6.01	66kV BHP - Lobeysa Fdr.	7.95	+	
		<b>Total</b>	<b>6.01</b>	220kV BHP - Tsirang Fdr.	6.74	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.51	+	
		Unit- II	12.37	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.37</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.11</b>		
4	DHPC	Unit-I	18.22	220kV DHPC - Tsirang Fdr.	18.06	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>18.22</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.16</b>		
5	KHP	Unit- I	14.23	132kV KHP - Nangkhor Fdr- I	52.10	+	
		Unit-II	14.16	132kV KHP - Kilikhar Fdr- II	3.92	+	
		Unit- III	14.19	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	14.26	132kV Gelephu - Salakati Fdr.	5.15	+	
				132kV Motanga - Rangia Fdr.	25.88	+	
				220kV Tsirang - Jigmeling	22.50	+	
		<b>Total</b>	<b>56.84</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.42</b>		

**Note: Load summary on May 09, 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	784.31	252.49	247.17	509.32	5.32
2	Eastern Grid	56.84	48.31	47.89	31.03	0.42
	<b>Total</b>	841.15	300.80	295.06	540.35	5.74

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	167.74	241.47	270.60
2	Eastern Grid	50.01	54.94	62.83
	<b>National</b>	217.75	296.41	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.
  - ii) The clocks of all the locations are not synchronized
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