

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

**Date:** May 5, 2019  
**Hours:** 19:00 Hours

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	135.90	400kV THP - Siliguri Fdr- I	173.78	+	
		Unit- II	140.13	400kV THP - Siliguri Fdr- II	172.34	+	
		Unit- III	141.23	400kV THP - Siliguri Fdr- IV	168.09	+	
		Unit- IV	139.50	400kV THP - Malbase Fdr- III	233.30	+	
		Unit- V	98.48	400kV Malbase - Siliguri	149.93	+	
		Unit- VI	99.24				
		<b>Total</b>	<b>754.48</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.97</b>		
2	CHP	Unit- I	92.56	220kV CHP - Birpara Fdr- I	82.49	+	
		Unit- II	90.74	220kV CHP - Birpara Fdr- II	82.28	+	
		Unit- III	91.71	220kV CHP - Malbase Fdr- III	141.04	+	
		Unit- IV	91.43	220kV CHP - Semtokha Fdr- IV	40.34	+	
				220kV Malbase - Birpara Fdr.	26.19	+	
				66kV CHP - Chumdo Fdr.	8.71	+	
				66kV CHP - Gedu Fdr.	8.03	+	
				3x3MVA, 66/11kV TFR	1.67	+	
		<b>Total</b>	<b>366.44</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.88</b>		
3	BHP (U/S)	Unit- I	5.50	220kV BHP - Semtokha Fdr.	-1.58	-	
		Unit- II	5.30	66kV BHP - Lobeysa Fdr.	12.06	+	
		<b>Total</b>	<b>10.80</b>	220kV BHP - Tsirang Fdr.	18.19	+	
	BHP (L/S)	Unit- I	8.15	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	9.43	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>17.58</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.99</b>		
4	DHPC	Unit-I	35.31	220kV DHPC - Tsirang Fdr.	35.07	+	
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>35.31</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
5	KHP	Unit- I	16.53	132kV KHP - Nangkhor Fdr- I	54.59	+	
		Unit-II	16.69	132kV KHP - Kilikhar Fdr- II	10.12	+	
		Unit- III	16.40	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.33	132kV Gelephu - Salakati Fdr.	13.05	+	
				132kV Motanga - Rangia Fdr.	32.73	+	
				220kV Tsirang - Jigmeling	50.49	+	
		<b>Total</b>	<b>65.95</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.64</b>		

**Note: Load summary on May 05, 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	1,184.61	279.02	270.92	855.10	8.10
2	Eastern Grid	65.95	70.66	70.02	45.78	0.64
	<b>Total</b>	1,250.56	349.68	340.94	900.88	8.74

**Note: Load Summary on May 05, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	267.36	270.60	270.60
2	Eastern Grid	57.27	57.27	62.83
	<b>National</b>	<b>324.63</b>	<b>327.87</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:** May 6, 2019  
**Hours:** 09:00 Hours

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks	
1	THP	Unit- I	136.73	400kV THP - Siliguri Fdr- I	174.20	+		
		Unit- II	137.20	400kV THP - Siliguri Fdr- II	171.67	+		
		Unit- III	140.27	400kV THP - Siliguri Fdr- IV	168.42	+		
		Unit- IV	109.99	400kV THP - Malbase Fdr- III	200.22	+		
		Unit- V	99.07	400kV Malbase - Siliguri	157.48	+		
		Unit- VI	100.15					
		<b>Total</b>	<b>723.41</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>8.90</b>		
2	CHP	Unit- I	91.43	220kV CHP - Birpara Fdr- I	90.50	+	□	
		Unit- II	91.15	220kV CHP - Birpara Fdr- II	90.07	+		
		Unit- III	91.15	220kV CHP - Malbase Fdr- III	162.79	+		
		Unit- IV	91.65	220kV CHP - Semtokha Fdr- IV	8.29	-		
				220kV Malbase - Birpara Fdr.	22.76	+		
				66kV CHP - Chumdo Fdr.	4.47	+		
				66kV CHP - Gedu Fdr.	7.16	+		
				3x3MVA, 66/11kV TFR	0.82	+		
		<b>Total</b>	<b>365.38</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.28</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	17.47	+	Unit-I under standby.	
		Unit- II	8.15	66kV BHP - Lobeysa Fdr.	8.57	+		
		<b>Total</b>	<b>8.15</b>	220kV BHP - Tsirang Fdr.		-2.47		-
	BHP (L/S)	Unit- I	10.00	5MVA, 66/11kV TFR		0.53		+
		<b>Total</b>	<b>17.60</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.65</b>		
4	DHPC	Unit-I	31.29	220kV DHPC - Tsirang Fdr.	31.09	+		
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00			
				5MVA, 220/33kV TFR		0.00		
		<b>Total</b>	<b>31.29</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.20</b>		
5	KHP	Unit- I	16.58	132kV KHP - Nangkhor Fdr- I	61.74	+		
		Unit-II	16.66	132kV KHP - Kilikhar Fdr- II	4.00	+		
		Unit- III	16.72	5MVA, 132/11kV TFR		0.30		+
		Unit- IV	16.57	132kV Gelephu - Salakati Fdr.		13.52		+
				132kV Motanga - Rangia Fdr.		25.02		+
				220kV Tsirang - Jigmeling		25.35		+
		<b>Total</b>	<b>66.53</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.49</b>		

**Note: Load summary on May 06, 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	1,145.83	245.38	233.35	875.10	12.03
2	Eastern Grid	66.53	53.34	52.85	38.54	0.49
	<b>Total</b>	1,212.36	298.72	286.20	913.64	12.52

**Note: Load Summary on May 06, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	210.12	266.02	270.60
2	Eastern Grid	45.05	54.13	62.83
	<b>National</b>	<b>255.17</b>	<b>320.15</b>	<b>333.43</b>

**NOTES:**

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