

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 30, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	156.59	400kV THP - Siliguri Fdr- I	184.50	+	Unit-III & VI under AM. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	156.60	400kV THP - Siliguri Fdr- II	182.63	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	139.86	400kV THP - Malbase Fdr- III	237.55	+	
		Unit- V	158.20	400kV Malbase - Siliguri	160.19	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>611.25</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.57</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	53.18	+	Unit-I under AM.
		Unit- II	90.88	220kV CHP - Birpara Fdr- II	52.97	+	
		Unit- III	91.22	220kV CHP - Malbase Fdr- III	113.65	+	
		Unit- IV	91.71	220kV CHP - Semtokha Fdr- IV	35.87	+	
				220kV Malbase - Birpara Fdr.	-1.84	-	
				66kV CHP - Chumdo Fdr.	8.52	+	
				66kV CHP - Gedu Fdr.	7.92	+	
				3x3MVA, 66/11kV TFR	1.30	+	
		<b>Total</b>	<b>273.81</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.40</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	6.09	+	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	5.30	66kV BHP - Lobeysa Fdr.	11.74	+	
		<b>Total</b>	<b>5.30</b>	220kV BHP - Tsirang Fdr.	-2.43	-	
	BHP (L/S)	Unit- I	13.00	5MVA, 66/11kV TFR	0.35	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>13.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.55</b>		
4	DHPC	Unit-I	17.26	220kV DHPC - Tsirang Fdr.	17.02	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>17.26</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
5	KHP	Unit- I	16.55	132kV KHP - Nangkhor Fdr- I	55.25	+	
		Unit-II	16.41	132kV KHP - Kilikhar Fdr- II	9.53	+	
		Unit- III	16.47	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.28	132kV Gelephu - Salakati Fdr.	-6.97	-	
				132kV Motanga - Rangia Fdr.	22.00	+	
				220kV Tsirang - Jigmeling	12.71	+	
		<b>Total</b>	<b>65.71</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.53</b>		

**Note: Load summary on April 30, 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	920.62	276.28	266.52	631.63	9.76
2	Eastern Grid	65.71	63.39	62.86	15.03	0.53
	<b>Total</b>	986.33	339.67	329.38	646.66	10.29

**Note: Load Summary on April 30, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	202.11	204.79	304.53
2	Eastern Grid	59.44	59.44	71.59
	<b>National</b>	<b>261.55</b>	<b>264.23</b>	<b>376.12</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 1, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks	
1	THP	Unit- I	155.54	400kV THP - Siliguri Fdr- I	167.60	+	Unit-VI under AM. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)	
		Unit- II	98.70	400kV THP - Siliguri Fdr- II	165.31	+		
		Unit- III	71.23	400kV THP - Siliguri Fdr- IV	0.00			
		Unit- IV	99.70	400kV THP - Malbase Fdr- III	183.37	+		
		Unit- V	98.69	400kV Malbase - Siliguri	151.83	+		
		Unit- VI	0.00					
		<b>Total</b>	<b>523.86</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>7.58</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	57.52	+	Unit-I under AM.	
		Unit- II	91.19	220kV CHP - Birpara Fdr- II	57.40	+		
		Unit- III	90.97	220kV CHP - Malbase Fdr- III	141.82	+		
		Unit- IV	91.86	220kV CHP - Semtokha Fdr- IV	4.34	+		
				220kV Malbase - Birpara Fdr.	-14.00	-		
				66kV CHP - Chumdo Fdr.	4.14	+		
				66kV CHP - Gedu Fdr.	7.86	+		
				3x3MVA, 66/11kV TFR	0.70	+		
		<b>Total</b>	<b>274.02</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.24</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	30.18	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby. □	
		Unit- II	5.50	66kV BHP - Lobeysa Fdr.	10.60	+		
		<b>Total</b>	<b>5.50</b>	220kV BHP - Tsirang Fdr.		-21.49		-
	BHP (L/S)	Unit- I	11.10	5MVA, 66/11kV TFR		0.98		+
		Unit- II	0.00	30MVA ICT, 220/66kV				
		<b>Total</b>	<b>11.10</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-3.67</b>		
4	DHPC	Unit-I	17.75	220kV DHPC - Tsirang Fdr.	17.57	+	Unit-II under standby.	
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00			
				5MVA, 220/33kV TFR		0.00		
		<b>Total</b>	<b>17.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.18</b>		
5	KHP	Unit- I	16.51	132kV KHP - Nangkhor Fdr- I	61.24	+		
		Unit-II	16.54	132kV KHP - Kilikhar Fdr- II	3.94	+		
		Unit- III	16.35	5MVA, 132/11kV TFR		0.30		+
		Unit- IV	16.43	132kV Gelephu - Salakati Fdr.		-1.14		-
				132kV Motanga - Rangia Fdr.		17.49		+
				220kV Tsirang - Jigmeling		-1.32		-
		<b>Total</b>	<b>65.83</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.35</b>		

**Note: Load summary on May 01, 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	832.23	247.89	243.56	585.66	4.33
2	Eastern Grid	65.83	48.16	47.81	16.35	0.35
	<b>Total</b>	<b>898.06</b>	<b>296.05</b>	<b>291.37</b>	<b>602.01</b>	<b>4.68</b>

**Note: Load Summary on May 01, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	244.64	252.94	270.60
2	Eastern Grid	43.47	52.12	62.83
	<b>National</b>	<b>288.11</b>	<b>305.06</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.