

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 18, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.23	400kV THP - Siliguri Fdr- I	124.29		Fdr-IV under shutdown. Unit-III & VI under AM.
		Unit- II	127.98	400kV THP - Siliguri Fdr- II	122.27	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	81.48	400kV THP - Malbase Fdr- III	192.85	+	
		Unit- V	98.73	400kV Malbase - Siliguri	100.13	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>446.42</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>7.01</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	28.22	+	Unit-I under AM.
		Unit- II	65.72	220kV CHP - Birpara Fdr- II	28.16	+	
		Unit- III	67.19	220kV CHP - Malbase Fdr- III	80.69	+	
		Unit- IV	71.33	220kV CHP - Semtokha Fdr- IV	42.15	+	
				220kV Malbase - Birpara Fdr.	-12.66	-	
				66kV CHP - Chumdo Fdr.	19.51	+	
				66kV CHP - Gedu Fdr.	3.80	+	
				3x3MVA, 66/11kV TFR	1.55	+	
		<b>Total</b>	<b>204.24</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.16</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	1.73	+	Upper Stage Unit-I in standby. Lower Stage Unit II in standby.
		Unit- II	6.10	66kV BHP - Lobeysa Fdr.	10.19	+	
		<b>Total</b>	<b>6.10</b>	220kV BHP - Tsirang Fdr.		-4.79	
	BHP (L/S)	Unit- I	4.00	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>4.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.08</b>	
4	DHPC	Unit-I	20.28	220kV DHPC - Tsirang Fdr.	20.06	+	Unit-II in standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>20.28</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.22</b>	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	38.63	+	Unit-I under AM.
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	9.78	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	-11.60	-	
				132kV Motanga - Rangia Fdr.	19.80	+	
				220kV Tsirang - Jigmeling	15.40	+	
		<b>Total</b>	<b>49.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.59</b>	

**Note: Load summary on April 18, 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	681.04	275.23	265.76	390.41	9.47
2	Eastern Grid	49.50	56.70	56.11	8.20	0.59
	<b>Total</b>	<b>730.54</b>	<b>331.93</b>	<b>321.87</b>	<b>398.61</b>	<b>10.06</b>

**Note: Load Summary on April 18, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	280.16	284.06	304.53
2	Eastern Grid	61.21	61.21	71.59
	<b>National</b>	<b>341.37</b>	<b>345.27</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:** April 19, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	97.65	400kV THP - Siliguri Fdr- I	119.23		Fdr-IV under shutdown. Unit-III & VI under AM.
		Unit- II	117.36	400kV THP - Siliguri Fdr- II	117.63	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	102.22	400kV THP - Malbase Fdr- III	174.34	+	
		Unit- V	99.27	400kV Malbase - Siliguri	97.76	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>416.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>5.30</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	34.18	+	Unit-I under AM.
		Unit- II	64.18	220kV CHP - Birpara Fdr- II	34.32	+	
		Unit- III	64.91	220kV CHP - Malbase Fdr- III	91.25	+	
		Unit- IV	64.17	220kV CHP - Semtokha Fdr- IV	14.36	+	
				220kV Malbase - Birpara Fdr.	-13.52	-	
				66kV CHP - Chumdo Fdr.	12.43	+	
				66kV CHP - Gedu Fdr.	5.11	+	
				3x3MVA, 66/11kV TFR	0.73	+	
		<b>Total</b>	<b>193.26</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.88</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	11.60	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby. □
		Unit- II	6.20	66kV BHP - Lobeysa Fdr.	9.12	+	
		<b>Total</b>	<b>6.20</b>	220kV BHP - Tsirang Fdr.		-2.79	
	BHP (L/S)	Unit- I	12.60	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.60</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.48</b>	
4	DHPC	Unit-I	20.24	220kV DHPC - Tsirang Fdr.	19.99	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>20.24</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.25</b>	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	45.24	+	Unit-I under AM.
		Unit-II	16.59	132kV KHP - Kilikhar Fdr- II	3.63	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.56	132kV Gelephu - Salakati Fdr.	1.13	+	
				132kV Motanga - Rangia Fdr.	19.79	+	
				220kV Tsirang - Jigmeling	16.29	+	
		<b>Total</b>	<b>49.74</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.47</b>	

**Note: Load summary on April 19, 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	648.80	242.91	236.00	389.60	6.91
2	Eastern Grid	49.74	45.11	44.64	20.92	0.47
	<b>Total</b>	698.54	288.02	280.64	410.52	7.38

**Note: Load Summary on April 19, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	256.36	274.16	304.53
2	Eastern Grid	42.03	57.96	71.59
	<b>National</b>	<b>298.39</b>	<b>332.12</b>	<b>376.12</b>

**Notes:-**

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