

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 21, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	70.00	400kV THP - Siliguri Fdr- I	74.00	+	Unit-III & VI under AM. Unit-IV standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 14/05/19)
		Unit- II	140.00	400kV THP - Siliguri Fdr- II	73.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	144.00	+	
		Unit- V	90.00	400kV Malbase - Siliguri	68.37	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>300.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>9.00</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	17.84	+	Unit-I under AM. Unit-II standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	17.92	+	
		Unit- III	83.93	220kV CHP - Malbase Fdr- III	70.89	+	
		Unit- IV	88.96	220kV CHP - Semtokha Fdr- IV	44.14	+	
				220kV Malbase - Birpara Fdr.	-24.71	-	
				66kV CHP - Chumdo Fdr.	10.77	+	
				66kV CHP - Gedu Fdr.	6.76	+	
				3x3MVA, 66/11kV TFR	1.69	+	
		<b>Total</b>	<b>172.89</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.88</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	7.16	+	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	5.10	66kV BHP - Lobeysa Fdr.	11.12	+	
		<b>Total</b>	<b>5.10</b>	220kV BHP - Tsirang Fdr.	-3.92	-	
	BHP (L/S)	Unit- I	10.70	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.70</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.55</b>		
4	DHPC	Unit-I	17.29	220kV DHPC - Tsirang Fdr.	17.03	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>17.29</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		
5	KHP	Unit- I	16.14	132kV KHP - Nangkhor Fdr- I	21.32	+	Unit-II Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.08	+	
		Unit- III	16.17	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-19.13	-	
				132kV Motanga - Rangia Fdr.	5.47	+	
				220kV Tsirang - Jigmeling	10.53	+	
		<b>Total</b>	<b>32.31</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.41</b>		

**Note: Load summary on April 21, 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	505.98	269.03	256.34	226.42	12.69
2	Eastern Grid	32.31	56.50	56.09	-13.66	0.41
	<b>Total</b>	538.29	325.53	312.43	212.76	13.10

**Note: Load Summary on April 21, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	265.96	265.96	304.53
2	Eastern Grid	53.54	53.54	71.59
	<b>National</b>	<b>319.50</b>	<b>319.50</b>	<b>376.12</b>

**Notes:- THP 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:** April 22, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	70.00	400kV THP - Siliguri Fdr- I	68.00	+	Fdr-IV under shutdown. Unit-III & VI under AM.
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	67.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	108.00	+	
		Unit- V	110.00	400kV Malbase - Siliguri	55.55	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>250.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>7.00</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	17.08	+	Unit-I under AM. , Unit III Standby
		Unit- II	69.39	220kV CHP - Birpara Fdr- II	16.94	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	81.03	+	
		Unit- IV	69.39	220kV CHP - Semtokha Fdr- IV	9.33	+	
				220kV Malbase - Birpara Fdr.	-33.83	-	
				66kV CHP - Chumdo Fdr.	6.33	+	
				66kV CHP - Gedu Fdr.	5.84	+	
				3x3MVA, 66/11kV TFR	0.90	+	
		<b>Total</b>	<b>138.78</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.33</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	24.95	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby.
		Unit- II	5.49	66kV BHP - Lobeysa Fdr.	10.67	+	
		<b>Total</b>	<b>5.49</b>	220kV BHP - Tsirang Fdr.	-16.91	-	
	BHP (L/S)	Unit- I	12.10	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.10</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-1.55</b>		
4	DHPC	Unit-I	17.62	220kV DHPC - Tsirang Fdr.	17.36	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.00	+	
		<b>Total</b>	<b>17.62</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		
5	KHP	Unit- I	10.30	132kV KHP - Nangkhor Fdr- I	41.00	+	
		Unit-II	10.40	132kV KHP - Kilikhar Fdr- II	4.50	+	
		Unit- III	15.30	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	10.00	132kV Gelephu - Salakati Fdr.	-9.08	-	
				132kV Motanga - Rangia Fdr.	16.00	+	
				220kV Tsirang - Jigmeling	1.70	+	
		<b>Total</b>	<b>46.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.30</b>		

**Note: Load summary on April 22, 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	423.99	231.55	224.51	190.74	7.04
2	Eastern Grid	46.00	40.78	40.48	6.92	0.30
	<b>Total</b>	469.99	272.33	264.99	197.66	7.34

**Note: Load Summary on April 22, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.71	277.94	304.53
2	Eastern Grid	38.06	53.30	71.59
	<b>National</b>	293.77	331.24	376.12

**Notes:-** THP loads collected from site.

- 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:
  - 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.
  - The clocks of all the locations are not synchronized
- This report is generated to give an idea of the generation & load flow for the system at a particular instant.