

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 7, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit III,IV & V standby. Unit-I under AM
		Unit- II	136.02	400kV THP - Siliguri Fdr- II	152.08	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	218.52	+	
		Unit- V	98.37	400kV Malbase - Siliguri	125.12	+	
		Unit- VI	141.08				
		<b>Total</b>	<b>375.47</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.87</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	22.69		Unit I & IV under AM. □
		Unit- II	91.69	220kV CHP - Birpara Fdr- II	22.57		
		Unit- III	91.67	220kV CHP - Malbase Fdr- III	64.92	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	52.05	+	
				220kV Malbase - Birpara Fdr.	-12.55	-	
				66kV CHP - Chumdo Fdr.	13.05	+	
				66kV CHP - Gedu Fdr.	5.73	+	
				3x3MVA, 66/11kV TFR	1.19	+	
<b>Total</b>	<b>183.36</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.16</b>				
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	6.19	+	Upper Unit I Standby. □
		Unit- II	7.46	66kV BHP - Lobeysa Fdr.	14.76	+	
		<b>Total</b>	<b>7.46</b>	220kV BHP - Tsirang Fdr.	1.72	+	
	BHP (L/S)	Unit- I	7.50	5MVA, 66/11kV TFR	0.79	+	
		Unit- II	7.97	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>15.47</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.53</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	26.98	+	Unit-I under AM
		Unit-II	27.21	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>27.21</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	20.14	+	Unit-I under AM. Unit-III at standby.
		Unit-II	16.21	132kV KHP - Kilikhar Fdr- II	11.32	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.09	132kV Gelephu - Salakati Fdr.	-9.80	-	
				132kV Motanga - Rangia Fdr.	11.63	+	
				220kV Tsirang - Jigmeling	25.37	+	
		<b>Total</b>	<b>32.30</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.44</b>		

**Note: Load summary on April 07, 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	608.97	273.69	267.96	309.91	5.73
2	Eastern Grid	32.30	55.84	55.40	1.83	0.44
	<b>Total</b>	<b>641.27</b>	<b>329.53</b>	<b>323.36</b>	<b>311.74</b>	<b>6.17</b>

**Note: Load Summary on April 07, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	293.75	293.75	304.53
2	Eastern Grid	53.79	58.26	71.59
	<b>National</b>	<b>347.54</b>	<b>352.01</b>	<b>376.12</b>

**Notes:-**

- 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.

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 8, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit-I under shutdown. Unit III & IV standby.
		Unit- II	135.08	400kV THP - Siliguri Fdr- II	134.31	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	185.99	+	
		Unit- V	98.89	400kV Malbase - Siliguri	112.36	+	
		Unit- VI	90.73				
		<b>Total</b>	<b>324.70</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.40</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	29.70	+	Unit I & IV under AM.
		Unit- II	81.85	220kV CHP - Birpara Fdr- II	29.66	+	
		Unit- III	82.96	220kV CHP - Malbase Fdr- III	77.65	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	13.73	-	
				220kV Malbase - Birpara Fdr.	-10.31	-	
				66kV CHP - Chumdo Fdr.	6.99	+	
				66kV CHP - Gedu Fdr.	5.75	+	
				3x3MVA, 66/11kV TFR	1.04	+	
		<b>Total</b>	<b>164.81</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.29</b>		
3	BHP (U/S)	Unit- I	8.60	220kV BHP - Semtokha Fdr.	21.34	+	Upper stage Unit II & Lower stage Unit I Standby. □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	11.44	+	
		<b>Total</b>	<b>8.60</b>	220kV BHP - Tsirang Fdr.	-6.65	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.89	+	
		<b>Total</b>	<b>18.20</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.22</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	29.01	+	Unit-I under AM
		Unit-II	29.23	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>29.23</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	23.77	+	Unit-I under AM.
		Unit-II	14.52	132kV KHP - Kilikhar Fdr- II	4.67	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.45	132kV Gelephu - Salakati Fdr.	-6.50	+	
				132kV Motanga - Rangia Fdr.	14.32	-	
				220kV Tsirang - Jigmeling	-20.65	-	
		<b>Total</b>	<b>28.97</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		

**Note: Load summary on April 08, 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	545.54	270.47	265.78	295.72	4.69
2	Eastern Grid	28.97	0.50	0.27	7.82	0.23
	<b>Total</b>	574.51	270.97	266.05	303.54	4.92

**Note: Load Summary on April 08, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	260.73	289.50	304.53
2	Eastern Grid	39.26	62.73	71.59
	<b>National</b>	<b>299.99</b>	<b>352.23</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.