

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

**Date:** April 16, 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	167.15	400kV THP - Siliguri Fdr- I	0.00		Fdr-IV under shutdown. Fdr-I Standby. Unit-III & VI under AM. Unit-IV standby.
		Unit- II	96.62	400kV THP - Siliguri Fdr- II	180.17	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	247.15	+	
		Unit- V	167.49	400kV Malbase - Siliguri	152.39	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>431.26</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.94</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	35.77	+	Unit-I & IV under AM. □
		Unit- II	67.10	220kV CHP - Birpara Fdr- II	35.99	+	
		Unit- III	70.00	220kV CHP - Malbase Fdr- III	79.72	+	
		Unit- IV	72.54	220kV CHP - Semtokha Fdr- IV	34.52	+	
				220kV Malbase - Birpara Fdr.	-2.57	-	
				66kV CHP - Chumdo Fdr.	15.41	+	
				66kV CHP - Gedu Fdr.	4.79	+	
				3x3MVA, 66/11kV TFR	1.44	+	
		<b>Total</b>	<b>209.64</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.00</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	5.03	+	Upper & Lower Unit-I Standby. □
		Unit- II	7.12	66kV BHP - Lobeysa Fdr.	13.04	+	
		<b>Total</b>	<b>7.12</b>	220kV BHP - Tsirang Fdr.	2.71	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	1.26	+	
		Unit- II	15.12	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>15.12</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
4	DHPC	Unit-I	21.75	220kV DHPC - Tsirang Fdr.	21.45	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>21.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.30</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	26.33	+	Unit-I under AM.
		Unit-II	12.15	132kV KHP - Kilikhar Fdr- II	9.62	+	
		Unit- III	12.15	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	12.33	132kV Gelephu - Salakati Fdr.	-11.76	-	
				132kV Motanga - Rangia Fdr.	8.91	+	
				220kV Tsirang - Jigmeling	20.59	+	
		<b>Total</b>	<b>36.63</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.08</b>		

**Note: Load summary on April 16, 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	684.89	262.55	256.11	401.75	6.44
2	Eastern Grid	36.63	60.07	59.99	-2.85	0.08
	<b>Total</b>	721.52	322.62	316.10	398.90	6.52

**Note: Load Summary on April 16, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	286.72	286.72	304.53
2	Eastern Grid	61.11	61.11	71.59
	<b>National</b>	<b>347.83</b>	<b>347.83</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 17, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	165.94	400kV THP - Siliguri Fdr- I	0.00		Fdr-IV under shutdown. Fdr I Standby. Unit-III,VI under AM. Unit-IV standby.
		Unit- II	167.52	400kV THP - Siliguri Fdr- II	244.88	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	255.11	+	
		Unit- V	168.57	400kV Malbase - Siliguri	221.78	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>502.03</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.04</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	51.61	+	Unit-I & IV under AM.
		Unit- II	88.87	220kV CHP - Birpara Fdr- II	51.38	+	
		Unit- III	88.93	220kV CHP - Malbase Fdr- III	121.51	+	
		Unit- IV	91.00	220kV CHP - Semtokha Fdr- IV	27.38	+	
				220kV Malbase - Birpara Fdr.	-9.12	-	
				66kV CHP - Chumdo Fdr.	10.20	+	
				66kV CHP - Gedu Fdr.	4.93	+	
				3x3MVA, 66/11kV TFR	0.94	+	
		<b>Total</b>	<b>268.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.85</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.00	+	Upper stage Unit-I Standby. Lower Stage and 220kV switchyard under shutdown. □
		Unit- II	7.21	66kV BHP - Lobeysa Fdr.	6.86	+	
		<b>Total</b>	<b>7.21</b>	220kV BHP - Tsirang Fdr.	0.00	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.36	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>0.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.01</b>		
4	DHPC	Unit-I	23.27	220kV DHPC - Tsirang Fdr.	23.02	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>23.27</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.25</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	44.54	+	Unit-I under AM.
		Unit-II	16.69	132kV KHP - Kilikhar Fdr- II	4.39	+	
		Unit- III	16.65	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.26	132kV Gelephu - Salakati Fdr.	14.02	+	
				132kV Motanga - Rangia Fdr.	5.00	+	
				220kV Tsirang - Jigmeling	20.93	+	
		<b>Total</b>	<b>49.60</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.37</b>		

**Note: Load summary on April 17, 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	801.31	219.85	216.72	560.53	3.13
2	Eastern Grid	49.60	51.51	51.14	19.02	0.37
	<b>Total</b>	<b>850.91</b>	<b>271.36</b>	<b>267.86</b>	<b>579.55</b>	<b>3.50</b>

**Note: Load Summary on April 17, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.32	284.94	304.53
2	Eastern Grid	44.05	60.87	71.59
	<b>National</b>	<b>299.37</b>	<b>345.81</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.
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