

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 15, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.84	400kV THP - Siliguri Fdr- I	0.00		Fdr-IV under shutdown. Fdr-I Standby. Unit-III & VI under AM. Unit-IV standby.
		Unit- II	149.48	400kV THP - Siliguri Fdr- II	187.88	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	263.90	+	
		Unit- V	137.81	400kV Malbase - Siliguri	154.94	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>454.13</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.35</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	28.57	+	Unit-I & IV under AM.
		Unit- II	91.54	220kV CHP - Birpara Fdr- II	28.63	+	
		Unit- III	91.35	220kV CHP - Malbase Fdr- III	72.14	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	29.56	+	
				220kV Malbase - Birpara Fdr.	-8.58	-	
				66kV CHP - Chumdo Fdr.	15.57	+	
				66kV CHP - Gedu Fdr.	5.37	+	
				3x3MVA, 66/11kV TFR	1.50	+	
		<b>Total</b>	<b>182.89</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.55</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	11.48	+	Upper & Lower Unit-I Standby. □
		Unit- II	6.93	66kV BHP - Lobeysa Fdr.	12.99	+	
		<b>Total</b>	<b>6.93</b>	220kV BHP - Tsirang Fdr.	-3.78	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.75	+	
		Unit- II	14.60	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>14.60</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.09</b>		
4	DHPC	Unit-I	25.30	220kV DHPC - Tsirang Fdr.	25.08	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>25.30</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	26.01	+	Unit-I under AM.
		Unit-II	12.17	132kV KHP - Kilikhar Fdr- II	9.53	+	
		Unit- III	15.29	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	11.99	132kV Gelephu - Salakati Fdr.	-12.85	-	
				132kV Motanga - Rangia Fdr.	2.80	+	
				220kV Tsirang - Jigmeling	18.41	+	
		<b>Total</b>	<b>39.45</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.31</b>		

**Note: Load summary on April 15, 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	683.85	274.00	269.79	391.44	4.21
2	Eastern Grid	39.45	67.91	64.60	-10.05	3.31
	<b>Total</b>	723.30	341.91	334.39	381.39	7.52

**Note: Load Summary on April 15, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	279.98	289.93	304.53
2	Eastern Grid	68.02	68.02	71.59
	<b>National</b>	<b>348.00</b>	<b>357.95</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 15, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	165.78	400kV THP - Siliguri Fdr- I	0.00		Fdr-IV under shutdown. Fdr I Standby. Unit-III,VI under AM. Unit-IV standby.
		Unit- II	168.76	400kV THP - Siliguri Fdr- II	237.09	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	263.50	+	
		Unit- V	167.84	400kV Malbase - Siliguri	211.80	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>502.38</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.79</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	57.16	+	Unit-I & IV under AM.
		Unit- II	87.95	220kV CHP - Birpara Fdr- II	57.11	+	
		Unit- III	84.63	220kV CHP - Malbase Fdr- III	126.73	+	
		Unit- IV	87.91	220kV CHP - Semtokha Fdr- IV	0.18	+	
				220kV Malbase - Birpara Fdr.	-4.45	-	
				66kV CHP - Chumdo Fdr.	10.78	+	
				66kV CHP - Gedu Fdr.	6.04	+	
				3x3MVA, 66/11kV TFR	0.90	+	
		<b>Total</b>	<b>260.49</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.59</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	26.56	+	Upper stage & Lower stage Unit-I Standby. □
		Unit- II	7.84	66kV BHP - Lobeysa Fdr.	10.39	+	
		<b>Total</b>	<b>7.84</b>	220kV BHP - Tsirang Fdr.		-13.40	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.51	+	
		Unit- II	16.07	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>16.07</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-0.15</b>	
4	DHPC	Unit-I	21.26	220kV DHPC - Tsirang Fdr.	21.07	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>21.26</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.19</b>	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	44.88	+	Unit-I under AM.
		Unit-II	16.58	132kV KHP - Kilikhar Fdr- II	4.19	+	
		Unit- III	16.40	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.57	132kV Gelephu - Salakati Fdr.	1.24	+	
				132kV Motanga - Rangia Fdr.	14.78	+	
				220kV Tsirang - Jigmeling	5.07	+	
		<b>Total</b>	<b>49.55</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.08</b>	

**Note: Load summary on April 15, 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	808.04	244.26	240.84	558.71	3.42
2	Eastern Grid	49.55	38.60	38.52	16.02	0.08
	<b>Total</b>	857.59	282.86	279.36	574.73	3.50

**Note: Load Summary on April 15, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	236.56	286.72	304.53
2	Eastern Grid	47.22	61.11	71.59
	<b>National</b>	<b>283.78</b>	<b>347.83</b>	<b>376.12</b>

**Notes:-**

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  - 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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