

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 9, 2019  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	67.88	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit III & IV standby.
		Unit- II	139.69	400kV THP - Siliguri Fdr- II	164.70	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	238.46	+	
		Unit- V	109.20	400kV Malbase - Siliguri	135.98	+	
		Unit- VI	91.40				
		<b>Total</b>	<b>408.17</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.01</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	20.10	+	Unit I & IV under AM.
		Unit- II	81.55	220kV CHP - Birpara Fdr- II	20.17	+	
		Unit- III	83.85	220kV CHP - Malbase Fdr- III	61.89	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	52.14	+	
				220kV Malbase - Birpara Fdr.	-13.97	-	
				66kV CHP - Chumdo Fdr.	0.60	+	
				66kV CHP - Gedu Fdr.	8.63	+	
				3x3MVA, 66/11kV TFR	1.70	+	
		<b>Total</b>	<b>165.40</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.17</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	12.99	+	Upper & Lower Unit I Standby. □
		Unit- II	8.99	66kV BHP - Lobeysa Fdr.	17.53	+	
		<b>Total</b>	<b>8.99</b>	220kV BHP - Tsirang Fdr.	-5.06	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	17.28	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>17.28</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.13</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.99	+	Unit-I under AM
		Unit-II	22.22	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>22.22</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	25.11	+	Unit-I under AM. Unit-III at standby.
		Unit-II	12.29	132kV KHP - Kilikhar Fdr- II	10.78	+	
		Unit- III	12.20	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	12.10	132kV Gelephu - Salakati Fdr.	-14.81	-	
				132kV Motanga - Rangia Fdr.	10.50	+	
				220kV Tsirang - Jigmeling	12.91	+	
		<b>Total</b>	<b>36.59</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.00</b>		

**Note: Load summary on April 09, 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	622.06	282.17	276.63	326.98	5.54
2	Eastern Grid	36.59	53.81	53.81	-4.31	0.00
	<b>Total</b>	658.65	335.98	330.44	322.67	5.54

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	284.66	284.66	304.53
2	Eastern Grid	48.86	48.86	71.59
	<b>National</b>	<b>333.52</b>	<b>333.52</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 10, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	108.31	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit-I under shutdown. Unit III & IV standby.
		Unit- II	99.66	400kV THP - Siliguri Fdr- II	122.93	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	172.99	+	
		Unit- V	0.00	400kV Malbase - Siliguri	103.02	+	
		Unit- VI	90.68				
		<b>Total</b>	<b>298.65</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.73</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	25.01	+	Unit I & IV under AM.
		Unit- II	78.32	220kV CHP - Birpara Fdr- II	24.70	+	
		Unit- III	82.54	220kV CHP - Malbase Fdr- III	87.41	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	15.42	+	
				220kV Malbase - Birpara Fdr.	-26.19	-	
				66kV CHP - Chumdo Fdr.	0.00	+	
				66kV CHP - Gedu Fdr.	6.69	+	
				3x3MVA, 66/11kV TFR	0.96	+	
		<b>Total</b>	<b>160.86</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.67</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	27.17	+	Upper stage & Lower stage Unit I Standby. □
		Unit- II	7.83	66kV BHP - Lobeysa Fdr.	12.94	+	
		<b>Total</b>	<b>7.83</b>	220kV BHP - Tsirang Fdr.	-15.76	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	16.33	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>16.33</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.56</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	26.40	+	Unit-I under AM
		Unit-II	26.73	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>26.73</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.33</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	28.36	+	Unit-I under AM.
		Unit-II	11.16	132kV KHP - Kilikhar Fdr- II	4.48	+	
		Unit- III	11.23	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	11.06	132kV Gelephu - Salakati Fdr.	-7.15	+	
				132kV Motanga - Rangia Fdr.	12.42	-	
				220kV Tsirang - Jigmeling	7.78	+	
		<b>Total</b>	<b>33.45</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.31</b>		

**Note: Load summary on April 10, 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	510.40	253.15	249.98	249.47	3.17
2	Eastern Grid	33.45	35.96	35.65	5.27	0.31
	<b>Total</b>	543.85	289.11	285.63	254.74	3.48

**Note: Load Summary on April 10, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.88	273.77	304.53
2	Eastern Grid	39.67	57.77	71.59
	<b>National</b>	295.55	331.54	376.12

**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:
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