

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** February 23, 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		400kV THP-SIL Fdr I under AM. Unit V standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	68.08	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	151.28	400kV THP - Malbase Fdr- III	148.05	+	
		Unit- V	0.00	400kV Malbase - Siliguri	45.82	+	
		Unit- VI	70.15				
		<b>Total</b>	<b>221.43</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.30</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-3.20	-	Unit I under AM. Unit-II Standby 66kV CHP-GED line under maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-3.10	-	
		Unit- III	35.84	220kV CHP - Malbase Fdr- III	31.30	+	
		Unit- IV	66.49	220kV CHP - Semtokha Fdr- IV	53.10	+	
				220kV Malbase - Birpara Fdr.	-27.60	-	
				66kV CHP - Chumdo Fdr.	20.20	+	
				66kV CHP - Gedu Fdr.	0.00		
				3x3MVA, 66/11kV TFR	1.81	+	
<b>Total</b>	<b>102.33</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.22</b>				
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-2.24	-	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.20	66kV BHP - Lobeysa Fdr.	13.84	+	
		<b>Total</b>	<b>5.20</b>	220kV BHP - Tsirang Fdr.	2.78	+	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.87	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.45</b>		
4	DHPC	Unit-I	16.24	220kV DHPC - Tsirang Fdr.	16.02	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>16.24</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
5	KHP	Unit- I	10.42	132kV KHP - Nangkhor Fdr- I	10.46	+	Unit II Standby. Unit-III AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.31	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	10.00	132kV Gelephu - Salakati Fdr.	-20.15	-	
				132kV Motanga - Rangia Fdr.	11.56	+	
				220kV Tsirang - Jigmeling	15.23	+	
		<b>Total</b>	<b>20.42</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.05</b>		

**Note: Load summary on February 23, 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	355.70	260.47	252.28	80.00	8.19
2	Eastern Grid	20.42	44.24	44.19	-8.59	0.05
	<b>Total</b>	<b>376.12</b>	<b>304.71</b>	<b>296.47</b>	<b>71.41</b>	<b>8.24</b>

**Note: Load Summary on February 23, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	291.16	291.16	313.19
2	Eastern Grid	62.33	62.33	72.02
	<b>National</b>	<b>353.49</b>	<b>353.49</b>	<b>385.21</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:** February 24, 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		Unit-V & 400kV THP-SIL Fdr I under AM & IV standby. Unit-I, II & III under AM	
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	42.00	+		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00			
		Unit- IV	90.57	400kV THP - Malbase Fdr- III	115.63	+		
		Unit- V	0.00	400kV Malbase - Siliguri	23.09	+		
		Unit- VI	69.37					
		<b>Total</b>	<b>159.94</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.31</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	4.60	+	Unit I under AM. Unit-II Standby 66kV CHP-GED line under maintenance.	
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	5.13	+		
		Unit- III	30.25	220kV CHP - Malbase Fdr- III	14.36	+		
		Unit- IV	41.70	220kV CHP - Semtokha Fdr- IV	27.59	+		
				220kV Malbase - Birpara Fdr.	-35.01	-		
				66kV CHP - Chumdo Fdr.	15.70	+		
				66kV CHP - Gedu Fdr.	0.00			
		<b>Total</b>	<b>71.95</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>3.16</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	8.89	+	Upper stage Unit I & Lower Stage- Unit II AM.	
		Unit- II	5.10	66kV BHP - Lobeysa Fdr.	10.54	+		
		<b>Total</b>	<b>5.10</b>	220kV BHP - Tsirang Fdr.		-4.69		-
	BHP (L/S)	Unit- I	10.40	5MVA, 66/11kV TFR		0.70		+
		Unit- II	0.00	30MVA ICT, 220/66kV				
		<b>Total</b>	<b>10.40</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.06</b>		
4	DHPC	Unit-I	16.21	220kV DHPC - Tsirang Fdr.	16.03	+	Unit-II maintenance.	
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00			
				5MVA, 220/33kV TFR		0.00		
		<b>Total</b>	<b>16.21</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.18</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.54	+	Unit-I & II Standby Unit-III under AM	
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.46	+		
		Unit- III	0.00	5MVA, 132/11kV TFR		0.40		+
		Unit- IV	16.41	132kV Gelephu - Salakati Fdr.		-17.38		-
				132kV Motanga - Rangia Fdr.		7.76		+
				220kV Tsirang - Jigmeling		8.74		+
		<b>Total</b>	<b>16.41</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.01</b>		

**Note: Load summary on February 24, 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	263.60	215.05	209.34	39.81	5.71
2	Eastern Grid	16.41	34.77	34.76	-9.62	0.01
<b>Total</b>		280.01	249.82	244.10	30.19	5.72

**Note: Load Summary on February 24, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	285.23	308.43	313.19
2	Eastern Grid	46.44	67.56	72.02
<b>National</b>		<b>331.67</b>	<b>375.99</b>	<b>385.21</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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