

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** February 22, 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	48.26	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	130.56	400kV THP - Malbase Fdr- III	147.97	+	
		Unit- V	0.00	400kV Malbase - Siliguri	23.41	+	
		Unit- VI	70.28				
		<b>Total</b>	<b>200.84</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.61</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-4.93	-	Unit I under AM. Unit-II Standby 66kV CHP-GED line under maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-5.50	-	
		Unit- III	38.74	220kV CHP - Malbase Fdr- III	19.30	+	
		Unit- IV	62.01	220kV CHP - Semtokha Fdr- IV	68.80	+	
				220kV Malbase - Birpara Fdr.	-24.42	-	
				66kV CHP - Chumdo Fdr.	21.10	+	
				66kV CHP - Gedu Fdr.	0.00		
		<b>Total</b>	<b>100.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.15</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-18.47	-	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.20	66kV BHP - Lobeysa Fdr.	13.12	+	
		<b>Total</b>	<b>5.20</b>	220kV BHP - Tsirang Fdr.	19.20	+	
	BHP (L/S)	Unit- I	10.40	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.40</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.77</b>		
4	DHPC	Unit-I	16.24	220kV DHPC - Tsirang Fdr.	16.01	+	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>0.23</b>		
5	KHP	Unit- I	10.19	132kV KHP - Nangkhor Fdr- I	10.40	+	Unit II Standby. Unit-III AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.94	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	10.30	132kV Gelephu - Salakati Fdr.	-16.66	-	
				132kV Motanga - Rangia Fdr.	9.54	+	
				220kV Tsirang - Jigmeling	32.09	+	
		<b>Total</b>	<b>20.49</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.45</b>		

**Note: Load summary on February 22, 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	333.43	264.52	258.76	36.82	5.76
2	Eastern Grid	20.49	59.70	60.15	-7.12	-0.45
	<b>Total</b>	353.92	324.22	318.91	29.70	5.31

**Note: Load Summary on February 22, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	309.79	309.79	313.19
2	Eastern Grid	59.66	59.66	72.02
	<b>National</b>	<b>369.45</b>	<b>369.45</b>	<b>385.21</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:** February 23, 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	37.92	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	81.02	400kV THP - Malbase Fdr- III	109.90	+	
		Unit- V	0.00	400kV Malbase - Siliguri	19.62	+	
		Unit- VI	70.22				
		<b>Total</b>	<b>151.24</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.42</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-3.60	-	Unit I under AM. Unit-II Standby 66kV CHP-GED line under maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-3.30	-	
		Unit- III	31.93	220kV CHP - Malbase Fdr- III	34.90	+	
		Unit- IV	44.97	220kV CHP - Semtokha Fdr- IV	30.65	+	
				220kV Malbase - Birpara Fdr.	-31.60	-	
				66kV CHP - Chumdo Fdr.	16.00	+	
				66kV CHP - Gedu Fdr.	0.00		
		<b>Total</b>	<b>76.90</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.04</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	4.70	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.20	66kV BHP - Lobeysa Fdr.	11.10	+	
		<b>Total</b>	<b>5.20</b>	220kV BHP - Tsirang Fdr.	-0.65	+	
	BHP (L/S)	Unit- I	10.52	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.52</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.06</b>		
4	DHPC	Unit-I	16.24	220kV DHPC - Tsirang Fdr.	16.01	+	Unit-II maintenance.
		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>0.23</b>		
5	KHP	Unit- I	10.36	132kV KHP - Nangkhor Fdr- I	14.66	+	Unit II Standby Unit-III under AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.27	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	10.02	132kV Gelephu - Salakati Fdr.	-17.83	-	
				132kV Motanga - Rangia Fdr.	7.76	+	
				220kV Tsirang - Jigmeling	14.65	+	
		<b>Total</b>	<b>20.38</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.05</b>		

**Note: Load summary on February 23, 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	260.10	226.41	221.78	19.04	4.63
2	Eastern Grid	20.38	45.10	45.05	-10.07	0.05
	<b>Total</b>	<b>280.48</b>	<b>271.51</b>	<b>266.83</b>	<b>8.97</b>	<b>4.68</b>

**Note: Load Summary on February 23, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	286.41	291.16	313.19
2	Eastern Grid	46.68	62.23	72.02
	<b>National</b>	<b>333.09</b>	<b>353.39</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.