

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** February 12, 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		Unit-V & 400kV THP-SIL Fdr I & IV standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	64.90	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	101.57	400kV THP - Malbase Fdr- III	162.66	+	
		Unit- V	0.00	400kV Malbase - Siliguri	38.45	+	
		Unit- VI	129.47				
		<b>Total</b>	<b>231.04</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.48</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit I under AM. Unit-III Standby 220kV CHP-BIR I Standby
		Unit- II	43.00	220kV CHP - Birpara Fdr- II	43.00	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	-36.00	-	
		Unit- IV	43.74	220kV CHP - Semtokha Fdr- IV	59.01	+	
				220kV Malbase - Birpara Fdr.	-62.05	-	
				66kV CHP - Chumdo Fdr.	23.78	+	
				66kV CHP - Gedu Fdr.	-3.31	-	
		<b>Total</b>	<b>86.74</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-1.78</b>		
3	BHP (U/S)	Unit- I	5.32	220kV BHP - Semtokha Fdr.	-4.74	-	Upper stage & Lower Stage- Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.89	+	
		<b>Total</b>	<b>5.32</b>	220kV BHP - Tsirang Fdr.	-0.86	-	
	BHP (L/S)	Unit- I	12.00	5MVA, 66/11kV TFR	1.01	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.02</b>		
4	DHPC	Unit-I	12.23	220kV DHPC - Tsirang Fdr.	12.05	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>12.23</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.18</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	4.73	+	Unit III Standby & Unit-IV under mechanical run Unit-I under AM
		Unit-II	16.29	132kV KHP - Kilikhar Fdr- II	10.31	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-31.67	-	
				132kV Motanga - Rangia Fdr.	-3.07	-	
				220kV Tsirang - Jigmeling	8.32	+	
		<b>Total</b>	<b>16.29</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.65</b>		

**Note:** Load summary on February 12, 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	347.33	254.71	246.81	84.30	7.90
2	Eastern Grid	16.29	59.35	58.70	-34.74	0.65
	<b>Total</b>	<b>363.62</b>	<b>314.06</b>	<b>305.51</b>	<b>49.56</b>	<b>8.55</b>

**Note:** Load Summary on February 12, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	306.35	306.35	313.19
2	Eastern Grid	67.48	68.53	72.02
	<b>National</b>	<b>373.83</b>	<b>374.88</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 13, 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 & IV standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	18.43	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	61.36	400kV THP - Malbase Fdr- III	99.78	+	
		Unit- V	0.00	400kV Malbase - Siliguri	0.00	+	
		Unit- VI	60.17				
		<b>Total</b>	<b>121.53</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.32</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit I under AM. Unit-III Standby 220kV CHP-BIR I Standby
		Unit- II	41.97	220kV CHP - Birpara Fdr- II	42.10	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	-16.20	-	
		Unit- IV	29.21	220kV CHP - Semtokha Fdr- IV	25.87	+	
				220kV Malbase - Birpara Fdr.	-76.39	-	
				66kV CHP - Chumdo Fdr.	22.73	+	
				66kV CHP - Gedu Fdr.	-2.28	-	
		<b>Total</b>	<b>71.18</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-2.31</b>		
3	BHP (U/S)	Unit- I	5.39	220kV BHP - Semtokha Fdr.	-4.74	-	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	12.97	+	
		<b>Total</b>	<b>5.39</b>	220kV BHP - Tsirang Fdr.	-15.68	-	
	BHP (L/S)	Unit- I	12.00	5MVA, 66/11kV TFR	1.01	+	
		<b>Total</b>	<b>12.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>23.83</b>		
4	DHPC	Unit-I	15.72	220kV DHPC - Tsirang Fdr.	15.52	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>15.72</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.56	+	Unit III Standby & Unit-IV under mechanical run Unit-I under AM
		Unit-II	16.39	132kV KHP - Kilikhar Fdr- II	5.18	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-28.69	-	
				132kV Motanga - Rangia Fdr.	0.07	+	
				220kV Tsirang - Jigmeling	-3.20	-	
		<b>Total</b>	<b>16.39</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.25</b>		

**Note: Load summary on February 13, 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	225.82	244.88	219.84	-15.86	25.04
2	Eastern Grid	16.39	41.81	41.56	-28.62	0.25
	<b>Total</b>	<b>242.21</b>	<b>286.69</b>	<b>261.40</b>	<b>-44.48</b>	<b>25.29</b>

**Note: Load Summary on February 13, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	247.25	273.48	313.19
2	Eastern Grid	49.94	69.19	72.02
	<b>National</b>	<b>297.19</b>	<b>342.67</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.
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