

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** February 4, 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 standby. Unit-I, II & III under AM. 400kV THP_SIL Fdr II under AM.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	32.23	+	
		Unit- IV	80.69	400kV THP - Malbase Fdr- III	136.01	+	
		Unit- V	0.00	400kV Malbase - Siliguri	13.20	+	
		Unit- VI	89.69				
		<b>Total</b>	<b>170.38</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.14</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	220kV CHP-BIR I under AM. 220kV CHP_BIR II under breakdown
		Unit- II	48.18	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	9.30	+	
		Unit- IV	37.89	220kV CHP - Semtokha Fdr- IV	57.10	+	
				220kV Malbase - Birpara Fdr.	-44.20	-	
				66kV CHP - Chumdo Fdr.	13.43	+	
				66kV CHP - Gedu Fdr.	3.80	+	
				3x3MVA, 66/11kV TFR	1.89	+	
<b>Total</b>	<b>86.07</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.55</b>				
3	BHP (U/S)	Unit- I	5.18	220kV BHP - Semtokha Fdr.	1.48	+	Upper stage & Lower Stage- Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.87	+	
		<b>Total</b>	<b>5.18</b>	220kV BHP - Tsirang Fdr.	-3.89	-	
	BHP (L/S)	Unit- I	10.70	5MVA, 66/11kV TFR	0.94	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.70</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.48</b>		
4	DHPC	Unit-I	15.62	220kV DHPC - Tsirang Fdr.	15.39	+	Unit-II under Maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>15.62</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	5.47	+	Unit III Standby. Unit-IV AM
		Unit-II	16.22	132kV KHP - Kilikhar Fdr- II	9.89	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-29.74	-	
				132kV Motanga - Rangia Fdr.	-3.29	-	
				220kV Tsirang - Jigmeling	8.99	+	
		<b>Total</b>	<b>16.22</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		

**Note: Load summary on February 04, 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	287.95	277.73	273.33	1.23	4.40
2	Eastern Grid	16.22	58.24	57.98	-33.03	0.26
	<b>Total</b>	304.17	335.97	331.31	-31.80	4.66

**Note: Load Summary on February 04, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	284.47	284.47	313.19
2	Eastern Grid	64.26	64.26	72.02
	<b>National</b>	<b>348.73</b>	<b>348.73</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 5, 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 standby. Unit-I, II & III under AM. 400kV THP_SIL Fdr II under AM.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	15.05	+	
		Unit- IV	61.23	400kV THP - Malbase Fdr- III	103.15	+	
		Unit- V	0.00	400kV Malbase - Siliguri	0.00	+	
		Unit- VI	60.36				
		<b>Total</b>	<b>121.59</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.39</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	220kV CHP-BIR I under AM
		Unit- II	28.87	220kV CHP - Birpara Fdr- II	-21.00	-	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	19.30	+	
		Unit- IV	27.05	220kV CHP - Semtokha Fdr- IV	40.60	+	
				220kV Malbase - Birpara Fdr.	-49.09	-	
				66kV CHP - Chumdo Fdr.	10.40	+	
				66kV CHP - Gedu Fdr.	4.78	+	
				3x3MVA, 66/11kV TFR	1.47	+	
		<b>Total</b>	<b>55.92</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.37</b>		
3	BHP (U/S)	Unit- I	5.18	220kV BHP - Semtokha Fdr.	7.99	+	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	13.46	+	
		<b>Total</b>	<b>5.18</b>	220kV BHP - Tsirang Fdr.	-8.12	-	
	BHP (L/S)	Unit- I	10.60	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.60</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.82</b>		
4	DHPC	Unit-I	15.42	220kV DHPC - Tsirang Fdr.	15.21	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>15.42</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.21</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	9.17	+	Unit- I & III Standby Unit-IV AM
		Unit-II	16.16	132kV KHP - Kilikhar Fdr- II	6.27	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-26.01	-	
				132kV Motanga - Rangia Fdr.	-1.06	-	
				220kV Tsirang - Jigmeling	5.13	+	
		<b>Total</b>	<b>16.16</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		

**Note: Load summary on February 05, 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	208.71	258.62	252.83	-55.04	5.79
2	Eastern Grid	16.16	48.36	48.14	-27.07	0.22
	<b>Total</b>	<b>224.87</b>	<b>306.98</b>	<b>300.97</b>	<b>-82.11</b>	<b>6.01</b>

**Note: Load Summary on February 05, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	275.81	285.84	313.19
2	Eastern Grid	51.27	63.41	72.02
	<b>National</b>	<b>327.08</b>	<b>349.25</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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