

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** February 14, 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 under AM & IV standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	59.50	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	80.64	400kV THP - Malbase Fdr- III	157.62	+	
		Unit- V	0.00	400kV Malbase - Siliguri	32.55	+	
		Unit- VI	139.27				
		<b>Total</b>	<b>219.91</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.79</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit I under AM. Unit-II Standby 220kV CHP-BIR I Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	50.20	+	
		Unit- III	49.78	220kV CHP - Malbase Fdr- III	-26.60	-	
		Unit- IV	52.71	220kV CHP - Semtokha Fdr- IV	55.50	+	
				220kV Malbase - Birpara Fdr.	-59.53	-	
				66kV CHP - Chumdo Fdr.	23.02	+	
				66kV CHP - Gedu Fdr.	-2.24	-	
				3x3MVA, 66/11kV TFR	1.95	+	
		<b>Total</b>	<b>102.49</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.66</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.16	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	4.99	66kV BHP - Lobeysa Fdr.	14.89	+	
		<b>Total</b>	<b>4.99</b>	220kV BHP - Tsirang Fdr.	-2.22	-	
	BHP (L/S)	Unit- I	11.00	5MVA, 66/11kV TFR	0.94	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>11.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.22</b>		
4	DHPC	Unit-I	15.73	220kV DHPC - Tsirang Fdr.	15.53	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>15.73</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.06	+	Unit I & II Standby, Unit-III AM
		Unit-II	10.14	132kV KHP - Kilikhar Fdr- II	9.62	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	10.30	132kV Gelephu - Salakati Fdr.	-28.86	-	
				132kV Motanga - Rangia Fdr.	-3.85	-	
				220kV Tsirang - Jigmeling	11.60	+	
		<b>Total</b>	<b>20.44</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		

**Note: Load summary on February 14, 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	354.12	259.80	253.93	82.72	5.87
2	Eastern Grid	20.44	64.75	64.49	-32.71	0.26
	<b>Total</b>	374.56	324.55	318.42	50.01	6.13

**Note: Load Summary on February 14, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	278.77	291.13	313.19
2	Eastern Grid	72.02	72.02	72.02
	<b>National</b>	<b>350.79</b>	<b>363.15</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 15, 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	32.10	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	71.39	400kV THP - Malbase Fdr- III	107.44	+	
		Unit- V	0.00	400kV Malbase - Siliguri	13.62	+	
		Unit- VI	70.10				
		<b>Total</b>	<b>141.49</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.95</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit I under AM. Unit-II Standby 220kV CHP-BIR I Standby 66kV CHP_Gedu line under AM
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	35.18	+	
		Unit- III	35.32	220kV CHP - Malbase Fdr- III	-15.00	-	
		Unit- IV	32.89	220kV CHP - Semtokha Fdr- IV	28.37	+	
				220kV Malbase - Birpara Fdr.	-60.65	-	
				66kV CHP - Chumdo Fdr.	17.44	+	
				66kV CHP - Gedu Fdr.	0.00		
		<b>Total</b>	<b>68.21</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.87</b>		
3	BHP (U/S)	Unit- I	4.99	220kV BHP - Semtokha Fdr.	14.26	+	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	12.82	+	
		<b>Total</b>	<b>4.99</b>	220kV BHP - Tsirang Fdr.	-11.14	-	
	BHP (L/S)	Unit- I	10.90	5MVA, 66/11kV TFR	0.61	+	
		<b>Total</b>	<b>10.90</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.66</b>		
4	DHPC	Unit-I	15.53	220kV DHPC - Tsirang Fdr.	15.35	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>15.53</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.18</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.77	+	Unit I & II Standby, Unit-III AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.92	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.29	132kV Gelephu - Salakati Fdr.	-24.71	-	
				132kV Motanga - Rangia Fdr.	-0.41	-	
				220kV Tsirang - Jigmeling	2.39	+	
		<b>Total</b>	<b>16.29</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		

**Note: Load summary on February 15, 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	241.12	218.48	216.14	20.25	2.34
2	Eastern Grid	16.29	43.80	43.60	-25.12	0.20
	<b>Total</b>	<b>257.41</b>	<b>262.28</b>	<b>259.74</b>	<b>-4.87</b>	<b>2.54</b>

**Note: Load Summary on February 15, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.37	288.09	313.19
2	Eastern Grid	45.43	63.35	72.02
	<b>National</b>	<b>296.80</b>	<b>351.44</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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