

## 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:** 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	60.30	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	100.90	400kV THP - Malbase Fdr- III	164.77	+	
		Unit- V	0.00	400kV Malbase - Siliguri	34.08	+	
		Unit- VI	129.34				
		<b>Total</b>	<b>230.24</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.17</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	51.00	+	
		Unit- III	50.75	220kV CHP - Malbase Fdr- III	-28.00	-	
		Unit- IV	50.81	220kV CHP - Semtokha Fdr- IV	55.00	+	
				220kV Malbase - Birpara Fdr.	-69.31	-	
				66kV CHP - Chumdo Fdr.	22.73	+	
				66kV CHP - Gedu Fdr.	-2.28	-	
		<b>Total</b>	<b>101.56</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.90</b>		
3	BHP (U/S)	Unit- I	5.23	220kV BHP - Semtokha Fdr.	0.90	+	Upper stage & Lower Stage- Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.29	+	
		<b>Total</b>	<b>5.23</b>	220kV BHP - Tsirang Fdr.	-0.44	-	
	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>1.47</b>		
4	DHPC	Unit-I	15.25	220kV DHPC - Tsirang Fdr.	15.05	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>15.25</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
5	KHP	Unit- I	10.65	132kV KHP - Nangkhor Fdr- I	10.08	+	Unit IV & Unit-III standby
		Unit-II	10.28	132kV KHP - Kilikhar Fdr- II	9.94	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-30.17	-	
				132kV Motanga - Rangia Fdr.	1.69	+	
				220kV Tsirang - Jigmeling	11.18	+	
		<b>Total</b>	<b>20.93</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.31</b>		

**Note:** Load summary on February 13, 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	364.28	277.03	269.29	76.07	7.74
2	Eastern Grid	20.93	60.59	60.28	-28.48	0.31
<b>Total</b>		385.21	337.62	329.57	47.59	8.05

**Note:** Load Summary on February 13, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	273.78	273.78	313.19
2	Eastern Grid	68.15	69.19	72.02
	<b>National</b>	<b>341.93</b>	<b>342.97</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 14, 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	20.16	+		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00			
		Unit- IV	60.45	400kV THP - Malbase Fdr- III	96.71	+		
		Unit- V	0.00	400kV Malbase - Siliguri	2.48	+		
		Unit- VI	59.50					
		<b>Total</b>	<b>119.95</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>3.08</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 66kV CHP_Gedu line under AM	
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	33.10	+		
		Unit- III	32.79	220kV CHP - Malbase Fdr- III	-12.00	-		
		Unit- IV	30.09	220kV CHP - Semtokha Fdr- IV	22.50	+		
				220kV Malbase - Birpara Fdr.	-62.81	-		
				66kV CHP - Chumdo Fdr.	17.20	+		
				66kV CHP - Gedu Fdr.	0.00			
		<b>Total</b>	<b>62.88</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.79</b>		
3	BHP (U/S)	Unit- I	5.60	220kV BHP - Semtokha Fdr.	18.67	+	Upper stage & Lower Stage- Unit II AM	
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	12.50	+		
		<b>Total</b>	<b>5.60</b>	220kV BHP - Tsirang Fdr.		-15.00		-
	BHP (L/S)	Unit- I	10.90	5MVA, 66/11kV TFR		0.87		+
		<b>Total</b>	<b>10.90</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-0.54</b>		
4	DHPC	Unit-I	15.72	220kV DHPC - Tsirang Fdr.	15.54	+	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>0.18</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.87	+	Unit III & IV Standby Unit-I under AM	
		Unit-II	16.39	132kV KHP - Kilikhar Fdr- II	4.95	+		
		Unit- III	0.00	5MVA, 132/11kV TFR		0.40		+
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.		-27.58		-
				132kV Motanga - Rangia Fdr.		-3.74		-
				220kV Tsirang - Jigmeling		-4.00		-
		<b>Total</b>	<b>16.39</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.17</b>		

**Note: Load summary on February 14, 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	215.05	226.12	222.61	-7.07	3.51
2	Eastern Grid	16.39	43.71	43.54	-31.32	0.17
<b>Total</b>		231.44	269.83	266.15	-38.39	3.68

**Note: Load Summary on February 14, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	250.61	291.13	313.19
2	Eastern Grid	39.05	72.02	72.02
<b>National</b>		<b>289.66</b>	<b>363.15</b>	<b>385.21</b>

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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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