

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** February 3, 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	32.29	+	
		Unit- IV	109.86	400kV THP - Malbase Fdr- III	130.86	+	
		Unit- V	0.00	400kV Malbase - Siliguri	19.08	+	
		Unit- VI	60.03				
		<b>Total</b>	<b>169.89</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.74</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	43.97	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	3.10	+	
		Unit- IV	39.66	220kV CHP - Semtokha Fdr- IV	60.40	+	
				220kV Malbase - Birpara Fdr.	-58.31	-	
				66kV CHP - Chumdo Fdr.	13.90	+	
				66kV CHP - Gedu Fdr.	3.10	+	
		<b>Total</b>	<b>83.63</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.13</b>		
3	BHP (U/S)	Unit- I	5.17	220kV BHP - Semtokha Fdr.	1.08	+	Upper stage & Lower Stage- Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	16.13	+	
		<b>Total</b>	<b>5.17</b>	220kV BHP - Tsirang Fdr.	-5.05	-	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.53</b>		
4	DHPC	Unit-I	15.75	220kV DHPC - Tsirang Fdr.	15.52	+	Unit-II under Maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>15.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	10.55	132kV KHP - Nangkhor Fdr- I	9.18	+	Unit III Standby. Unit-IV AM
		Unit-II	10.22	132kV KHP - Kilikhar Fdr- II	9.98	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-27.40	-	
				132kV Motanga - Rangia Fdr.	-1.20	-	
				220kV Tsirang - Jigmeling	7.67	+	
		<b>Total</b>	<b>20.77</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.01</b>		

**Note: Load summary on February 03, 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	284.94	284.21	271.58	-6.94	12.63
2	Eastern Grid	20.77	57.04	56.03	-28.60	1.01
<b>Total</b>	<b>Total</b>	<b>305.71</b>	<b>341.25</b>	<b>327.61</b>	<b>-35.54</b>	<b>13.64</b>

**Note: Load Summary on February 03, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	299.48	299.48	313.19
2	Eastern Grid	57.61	57.61	72.02
<b>Total</b>	<b>National</b>	<b>357.09</b>	<b>357.09</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 4, 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	18.62	+	
		Unit- IV	60.44	400kV THP - Malbase Fdr- III	100.19	+	
		Unit- V	0.00	400kV Malbase - Siliguri	3.86	+	
		Unit- VI	59.56				
		<b>Total</b>	<b>120.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.19</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	31.07	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	6.94	+	
		Unit- IV	26.35	220kV CHP - Semtokha Fdr- IV	35.86	+	
				220kV Malbase - Birpara Fdr.	-63.14	-	
				66kV CHP - Chumdo Fdr.	10.88	+	
				66kV CHP - Gedu Fdr.	3.77	+	
		<b>Total</b>	<b>57.42</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-1.50</b>	
3	BHP (U/S)	Unit- I	5.22	220kV BHP - Semtokha Fdr.	1.08	+	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.05	+	
		<b>Total</b>	<b>5.22</b>	220kV BHP - Tsirang Fdr.		-13.94	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.61	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>13.92</b>	
4	DHPC	Unit-I	15.44	220kV DHPC - Tsirang Fdr.	15.23	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>15.44</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.21</b>	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	9.39	+	Unit- I & III Standby Unit-IV AM
		Unit-II	16.19	132kV KHP - Kilikhar Fdr- II	6.09	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-25.79	-	
				132kV Motanga - Rangia Fdr.	-4.65	-	
				220kV Tsirang - Jigmeling	-4.00	-	
		<b>Total</b>	<b>16.19</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.31</b>	

**Note: Load summary on February 04, 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	208.58	253.24	239.42	-40.66	13.82
2	Eastern Grid	16.19	42.63	42.32	-30.44	0.31
	<b>Total</b>	224.77	295.87	281.74	-71.10	14.13

**Note: Load Summary on February 04, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	245.78	284.47	313.19
2	Eastern Grid	42.18	64.26	72.02
	<b>National</b>	<b>287.96</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.