

## 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:** 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	37.72	+	
		Unit- IV	61.01	400kV THP - Malbase Fdr- III	130.70	+	
		Unit- V	0.00	400kV Malbase - Siliguri	19.06	+	
		Unit- VI	109.70				
		<b>Total</b>	<b>170.71</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.29</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	220kV CHP-BIR I under AM.
		Unit- II	48.24	220kV CHP - Birpara Fdr- II	-6.90	-	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	23.48	+	
		Unit- IV	45.14	220kV CHP - Semtokha Fdr- IV	53.18	+	
				220kV Malbase - Birpara Fdr.	-34.31	-	
				66kV CHP - Chumdo Fdr.	11.66	+	
				66kV CHP - Gedu Fdr.	4.92	+	
				3x3MVA, 66/11kV TFR	1.74	+	
		<b>Total</b>	<b>93.38</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.30</b>		
3	BHP (U/S)	Unit- I	5.13	220kV BHP - Semtokha Fdr.	1.08	+	Upper stage & Lower Stage- Unit II AM.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.42	+	
		<b>Total</b>	<b>5.13</b>	220kV BHP - Tsirang Fdr.	0.44	+	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.83	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-1.14</b>		
4	DHPC	Unit-I	15.45	220kV DHPC - Tsirang Fdr.	15.20	+	Unit-II under Maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>15.45</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.25</b>		
5	KHP	Unit- I	10.46	132kV KHP - Nangkhor Fdr- I	11.77	+	Unit III Standby. Unit-IV AM
		Unit-II	10.35	132kV KHP - Kilikhar Fdr- II	8.39	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-26.18	-	
				132kV Motanga - Rangia Fdr.	-1.70	-	
				220kV Tsirang - Jigmeling	13.43	+	
		<b>Total</b>	<b>20.81</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.05</b>		

**Note: Load summary on February 05, 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	295.17	266.17	259.47	15.57	6.70
2	Eastern Grid	20.81	62.12	62.07	-27.88	0.05
	<b>Total</b>	315.98	328.29	321.54	-12.31	6.75

**Note: Load Summary on February 05, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	285.84	285.84	313.19
2	Eastern Grid	63.41	63.41	72.02
	<b>National</b>	<b>349.25</b>	<b>349.25</b>	<b>385.21</b>

**Notes:-** 220kV CHP\_Birpara II load collected from site

- 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:
  - 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.
  - The clocks of all the locations are not synchronized
- 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 6, 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	15.99	+	
		Unit- IV	60.62	400kV THP - Malbase Fdr- III	102.02	+	
		Unit- V	0.00	400kV Malbase - Siliguri	0.00	+	
		Unit- VI	60.34				
		<b>Total</b>	<b>120.96</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.95</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	220kV CHP-BIR I under AM
		Unit- II	26.67	220kV CHP - Birpara Fdr- II	-18.47	-	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	19.90	+	
		Unit- IV	28.85	220kV CHP - Semtokha Fdr- IV	36.24	+	
				220kV Malbase - Birpara Fdr.	-44.53	-	
				66kV CHP - Chumdo Fdr.	9.85	+	
				66kV CHP - Gedu Fdr.	4.71	+	
				3x3MVA, 66/11kV TFR	1.36	+	
		<b>Total</b>	<b>55.52</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.93</b>		
3	BHP (U/S)	Unit- I	5.19	220kV BHP - Semtokha Fdr.	1.08	+	Upper stage & Lower Stage- Unit II AM
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	12.85	+	
		<b>Total</b>	<b>5.19</b>	220kV BHP - Tsirang Fdr.	-6.48	-	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.58	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>7.66</b>		
4	DHPC	Unit-I	15.43	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>15.43</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.64	+	Unit- I & III Standby Unit-IV AM
		Unit-II	16.73	132kV KHP - Kilikhar Fdr- II	5.37	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-23.64	-	
				132kV Motanga - Rangia Fdr.	2.12	+	
				220kV Tsirang - Jigmeling	6.15	+	
		<b>Total</b>	<b>16.73</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>			

**Note: Load summary on February 06, 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	207.60	248.46	235.72	-47.01	12.74
2	Eastern Grid	16.73	44.40	44.18	-21.52	0.22
	<b>Total</b>	224.33	292.86	279.90	-68.53	12.96

**Note: Load Summary on February 06, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	273.20	286.92	313.19
2	Eastern Grid	47.79	63.38	72.02
	<b>National</b>	<b>320.99</b>	<b>350.30</b>	<b>385.21</b>

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