

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** February 20, 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		400kV THP-SIL Fdr I under AM. Unit V standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	65.88	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	150.71	400kV THP - Malbase Fdr- III	149.66	+	
		Unit- V	0.00	400kV Malbase - Siliguri	42.41	+	
		Unit- VI	69.77				
		<b>Total</b>	<b>220.48</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.94</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	36.30	+	Unit I under AM. 220kV CHP_MAL line & 66kV CHP-GED line under maintenance. 220kV CHP_SEM line tripped at 17:55hrs
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	36.40	+	
		Unit- III	59.60	220kV CHP - Malbase Fdr- III	0.00		
		Unit- IV	40.06	220kV CHP - Semtokha Fdr- IV	0.00	+	
				220kV Malbase - Birpara Fdr.	-52.63	-	
				66kV CHP - Chumdo Fdr.	22.90	+	
				66kV CHP - Gedu Fdr.	0.00		
		<b>Total</b>	<b>99.66</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.95</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	53.54	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.30	66kV BHP - Lobeysa Fdr.	17.60	+	
		<b>Total</b>	<b>5.30</b>	220kV BHP - Tsirang Fdr.	-56.24	-	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.02</b>		
4	DHPC	Unit-I	16.27	220kV DHPC - Tsirang Fdr.	16.01	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>16.27</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		
5	KHP	Unit- I	10.28	132kV KHP - Nangkhor Fdr- I	9.12	+	Unit II Standby Unit-III AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.19	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	10.04	132kV Gelephu - Salakati Fdr.	-66.65	-	
				132kV Motanga - Rangia Fdr.	-12.42	-	
				220kV Tsirang - Jigmeling	-42.83	-	
		<b>Total</b>	<b>20.32</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.41</b>		

**Note:** Load summary on February 20, 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	352.21	266.68	259.55	128.36	7.13
2	Eastern Grid	20.32	56.56	56.15	-79.07	0.41
	<b>Total</b>	372.53	323.24	315.70	49.29	7.54

**Note:** Load Summary on February 20, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	304.04	304.04	313.19
2	Eastern Grid	63.10	63.10	72.02
	<b>National</b>	<b>367.14</b>	<b>367.14</b>	<b>385.21</b>

**Notes:-**

- 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 21, 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 & V standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	26.28	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	60.91	400kV THP - Malbase Fdr- III	101.79	+	
		Unit- V	0.00	400kV Malbase - Siliguri	8.01	+	
		Unit- VI	70.09				
		<b>Total</b>	<b>131.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.93</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	4.30	+	Unit I under AM. Unit-II Standby 220kV CHP_MAL line & 66kV CHP-GED line under maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	4.40	+	
		Unit- III	32.25	220kV CHP - Malbase Fdr- III	0.00		
		Unit- IV	29.56	220kV CHP - Semtokha Fdr- IV	34.31	+	
				220kV Malbase - Birpara Fdr.	-35.35	-	
				66kV CHP - Chumdo Fdr.	15.50	+	
				66kV CHP - Gedu Fdr.	0.00		
		<b>Total</b>	<b>61.81</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.05</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	3.94	+	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.30	66kV BHP - Lobeysa Fdr.	10.61	+	
		<b>Total</b>	<b>5.30</b>	220kV BHP - Tsirang Fdr.		1.88	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.66	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>10.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-1.29</b>	
4	DHPC	Unit-I	16.69	220kV DHPC - Tsirang Fdr.	16.53	+	Unit-II maintenance.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>16.69</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.16</b>	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	9.40	+	Unit I & II Standby Unit-III under AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.27	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.22	132kV Gelephu - Salakati Fdr.	-15.30	-	
				132kV Motanga - Rangia Fdr.	5.32	+	
				220kV Tsirang - Jigmeling	15.81	+	
		<b>Total</b>	<b>15.22</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.15</b>	

**Note:** Load summary on February 21, 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	225.30	201.85	198.00	7.64	3.85
2	Eastern Grid	15.22	41.01	40.86	-9.98	0.15
	<b>Total</b>	240.52	242.86	238.86	-2.34	4.00

**Note:** Load Summary on February 21, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	275.74	303.06	313.19
2	Eastern Grid	49.22	57.45	72.02
	<b>National</b>	<b>324.96</b>	<b>360.51</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.