

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** May 26, 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	187.53	+	Unit-IV AMP 400kV THP_SIL II Anti-Theft Charge Unit-I under breakdown.
		Unit- II	169.54	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	170.56	400kV THP - Siliguri Fdr- IV	179.32	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	269.85	+	
		Unit- V	167.77	400kV Malbase - Siliguri	155.46	+	
		Unit- VI	138.87				
		<b>Total</b>	<b>646.74</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>10.04</b>		
2	CHP	Unit- I	69.68	220kV CHP - Birpara Fdr- I	38.16	+	Unit-IV Standby
		Unit- II	75.32	220kV CHP - Birpara Fdr- II	38.20	+	
		Unit- III	65.15	220kV CHP - Malbase Fdr- III	81.38	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	28.57	+	
				220kV Malbase - Birpara Fdr.	0.00	+	
				66kV CHP - Chumdo Fdr.	15.71	+	
				66kV CHP - Gedu Fdr.	5.27	+	
		<b>Total</b>	<b>210.15</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.70</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-0.39	+	Upper stage unit I & lower stage unit-II Standby
		Unit- II	5.50	66kV BHP - Lobeysa Fdr.	9.22	+	
		<b>Total</b>	<b>5.50</b>	220kV BHP - Tsirang Fdr.	7.30	+	
	BHP (L/S)	Unit- I	11.30	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>11.30</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	28.18	+	Unit-I Standby
		Unit-II	28.42	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>28.42</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
5	KHP	Unit- I	16.51	132kV KHP - Nangkhor Fdr- I	56.50	+	
		Unit-II	16.42	132kV KHP - Kilikhar Fdr- II	8.79	+	
		Unit- III	16.70	5MVA, 132/11kV TFR	0.12	+	
		Unit- IV	16.56	132kV Gelephu - Salakati Fdr.	2.07	+	
				132kV Motanga - Rangia Fdr.	39.40	+	
				220kV Tsirang - Jigmeling	30.72	+	
		<b>Total</b>	<b>66.19</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.78</b>		

**Note: Load summary on May 26, 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	902.11	272.72	260.50	598.67	12.22
2	Eastern Grid	66.19	55.44	54.66	41.47	0.78
	<b>Total</b>	968.30	328.16	315.16	640.14	13.00

**Note: Load Summary on May 26, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	241.08	252.92	270.60
2	Eastern Grid	56.08	56.08	62.83
	<b>National</b>	<b>297.16</b>	<b>309.00</b>	<b>333.43</b>

### NOTES BHP LOADS COLLECTED FROM SITE

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:** May 27, 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	108.00	+	Unit-IV AMP 400kV THP_SIL II Anti-Theft Charge Unit-I under breakdown.
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	70.00	400kV THP - Siliguri Fdr- IV	102.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	108.00	+	
		Unit- V	80.00	400kV Malbase - Siliguri	101.64	+	
		Unit- VI	100.00				
		<b>Total</b>	<b>320.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.00</b>		
2	CHP	Unit- I	51.26	220kV CHP - Birpara Fdr- I	23.00	+	Unit- IV Standby
		Unit- II	55.63	220kV CHP - Birpara Fdr- II	23.00	+	
		Unit- III	52.69	220kV CHP - Malbase Fdr- III	82.40	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	9.80	+	
				220kV Malbase - Birpara Fdr.	-71.45	-	
				66kV CHP - Chumdo Fdr.	11.30	+	
			155.40	66kV CHP - Gedu Fdr.	5.90	+	
				3x3MVA, 66/11kV TFR	0.92	+	
		<b>Total</b>	<b>159.58</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.26</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	18.50	+	Upper stage unit I & lower stage unit-II Standby
		Unit- II	5.50	66kV BHP - Lobeysa Fdr.	7.56	+	
		<b>Total</b>	<b>5.50</b>	220kV BHP - Tsirang Fdr.	-10.26	-	
	BHP (L/S)	Unit- I	11.50	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>11.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.28</b>		
4	DHPC	Unit-I		220kV DHPC - Tsirang Fdr.	21.21	+	Unit-I standby.
		Unit-II	21.44	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>21.44</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	61.60	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	3.40	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	-1.30	-	
				132kV Motanga - Rangia Fdr.	33.90	+	
				220kV Tsirang - Jigmeling	9.38	+	
		<b>Total</b>	<b>66.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.70</b>		

**Note: Load summary on May 27, 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	518.02	222.45	216.68	286.19	5.77
2	Eastern Grid	66.00	42.78	42.08	32.60	0.70
	<b>Total</b>	584.02	265.23	258.76	318.79	6.47

**Note: Load Summary on May 27, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	204.19	245.88	270.60
2	Eastern Grid	40.77	56.07	62.83
	<b>National</b>	<b>244.96</b>	<b>301.95</b>	<b>333.43</b>

**NOTES ALL WESTERN LOADS COLLECTED FROM SITE**

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.