

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

**Date:** May 10, 2019  
**Hours:** 19:00 Hours

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	160.00	400kV THP - Siliguri Fdr- I	152.00	+	Unit-IV AMP Unit-V Standby 400kV THP_SIL IV Standby
		Unit- II	140.00	400kV THP - Siliguri Fdr- II	150.00	+	
		Unit- III	150.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	241.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	128.00	+	
		Unit- VI	100.00				
		<b>Total</b>	<b>550.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>7.00</b>		
2	CHP	Unit- I	82.00	220kV CHP - Birpara Fdr- I	55.70	+	Unit-III Standby
		Unit- II	92.00	220kV CHP - Birpara Fdr- II	55.30	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	90.00	+	
		Unit- IV	92.00	220kV CHP - Semtokha Fdr- IV	44.70	+	
				220kV Malbase - Birpara Fdr.	15.00	+	
				66kV CHP - Chumdo Fdr.	8.30	+	
				66kV CHP - Gedu Fdr.	5.50	+	
				3x3MVA, 66/11kV TFR	1.35	+	
		<b>Total</b>	<b>266.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.15</b>		
3	BHP (U/S)	Unit- I	5.70	220kV BHP - Semtokha Fdr.	-0.85	-	Upper stage unit II & lower stage unit-I Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.65	+	
		<b>Total</b>	<b>5.70</b>	220kV BHP - Tsirang Fdr.	5.70	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.69	+	
		Unit- II	11.50	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>11.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.01</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	18.75	+	Unit-I Standby
		Unit-II	18.95	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>18.95</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.20</b>		
5	KHP	Unit- I	13.21	132kV KHP - Nangkhor Fdr- I	44.86	+	
		Unit-II	13.20	132kV KHP - Kilikhar Fdr- II	8.03	+	
		Unit- III	14.24	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.55	132kV Gelephu - Salakati Fdr.	-1.20	-	
				132kV Motanga - Rangia Fdr.	32.20	+	
				220kV Tsirang - Jigmeling	23.00	+	
		<b>Total</b>	<b>54.20</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.91</b>		

**Note: Load summary on May 10, 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	852.15	273.15	259.79	556.00	13.36
2	Eastern Grid	54.20	46.20	45.29	31.00	0.91
	<b>Total</b>	906.35	319.35	305.08	587.00	14.27

**Note: Load Summary on May 10, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.46	251.46	270.60
2	Eastern Grid	60.97	61.52	62.83
	<b>National</b>	<b>312.43</b>	<b>312.98</b>	<b>333.43</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:** May 11, 2019  
**Hours:** 09:00 Hours

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	100.00	400kV THP - Siliguri Fdr- I	147.50	+	Unit-IV AMP Unit-V Standby 400kV THP_SIL IV Standby
		Unit- II	140.00	400kV THP - Siliguri Fdr- II	146.00	+	
		Unit- III	140.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	198.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	121.00	+	
		Unit- VI	120.00				
		<b>Total</b>	<b>500.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>8.50</b>	
2	CHP	Unit- I	88.00	220kV CHP - Birpara Fdr- I	61.40	+	Unit-III Standby □
		Unit- II	89.00	220kV CHP - Birpara Fdr- II	61.60	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	108.20	+	
		Unit- IV	90.00	220kV CHP - Semtokha Fdr- IV	22.60	+	
				220kV Malbase - Birpara Fdr.	15.00	+	
				66kV CHP - Chumdo Fdr.	5.20	+	
				66kV CHP - Gedu Fdr.	6.20	+	
				3x3MVA, 66/11kV TFR	0.69	+	
		<b>Total</b>	<b>267.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.11</b>	
3	BHP (U/S)	Unit- I	5.60	220kV BHP - Semtokha Fdr.	4.38	+	Upper stage unit II & lower stage unit-I Standby □
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	7.83	+	
		<b>Total</b>	<b>5.60</b>	220kV BHP - Tsirang Fdr.		4.89	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	11.50	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>11.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-0.89</b>	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	18.25	+	Unit-I standby.
		Unit-II	19.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>19.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.75</b>	
5	KHP	Unit- I	16.55	132kV KHP - Nangkhor Fdr- I	61.15	+	
		Unit-II	16.53	132kV KHP - Kilikhar Fdr- II	4.04	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.41	132kV Gelephu - Salakati Fdr.	8.50	+	
				132kV Motanga - Rangia Fdr.	35.49	+	
				220kV Tsirang - Jigmeling	20.25	+	
		<b>Total</b>	<b>65.91</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.32</b>	

**Note: Load summary on May 11, 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	803.10	230.35	220.88	552.50	9.47
2	Eastern Grid	65.91	42.17	41.85	43.99	0.32
	<b>Total</b>	<b>869.01</b>	<b>272.52</b>	<b>262.73</b>	<b>596.49</b>	<b>9.79</b>

**Note: Load Summary on May 11, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.55	254.33	270.60
2	Eastern Grid	51.06	59.38	62.83
	<b>National</b>	<b>262.61</b>	<b>313.71</b>	<b>333.43</b>

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