

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

**Date:** May 29, 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	90.25	400kV THP - Siliguri Fdr- I	81.57	+	Unit-III & V standby
		Unit- II	79.52	400kV THP - Siliguri Fdr- II	80.68	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	77.79	+	
		Unit- IV	99.75	400kV THP - Malbase Fdr- III	171.37	+	
		Unit- V	0.00	400kV Malbase - Siliguri	57.54	+	
		Unit- VI	149.83				
		<b>Total</b>	<b>419.35</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>7.94</b>		
2	CHP	Unit- I	64.18	220kV CHP - Birpara Fdr- I	28.02	+	Unit-II Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	27.88	+	
		Unit- III	67.49	220kV CHP - Malbase Fdr- III	78.67	+	
		Unit- IV	64.49	220kV CHP - Semtokha Fdr- IV	37.94	+	
				220kV Malbase - Birpara Fdr.	-14.38	-	
				66kV CHP - Chumdo Fdr.	16.03	+	
				66kV CHP - Gedu Fdr.	5.19	+	
				3x3MVA, 66/11kV TFR	1.25	+	
		<b>Total</b>	<b>196.16</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.18</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-8.90	-	Upper stage unit I & lower stage unit-II Standby
		Unit- II	7.24	66kV BHP - Lobeysa Fdr.	10.94	+	
		<b>Total</b>	<b>7.24</b>	220kV BHP - Tsirang Fdr.	19.34	+	
	BHP (L/S)	Unit- I	15.79	5MVA, 66/11kV TFR	0.66	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>15.79</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.99</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.96	+	Unit-I Standby
		Unit-II	18.17	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>18.17</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.21</b>		
5	KHP	Unit- I	15.86	132kV KHP - Nangkhor Fdr- I	55.30	+	
		Unit-II	16.01	132kV KHP - Kilikhar Fdr- II	8.64	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.39	132kV Gelephu - Salakati Fdr.	-3.66	-	
				132kV Motanga - Rangia Fdr.	42.36	+	
				220kV Tsirang - Jigmeling	35.55	+	
		<b>Total</b>	<b>64.76</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.32</b>		

**Note: Load summary on May 29, 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	656.71	282.06	271.74	339.10	10.32
2	Eastern Grid	64.76	61.61	61.29	38.70	0.32
	<b>Total</b>	<b>721.47</b>	<b>343.67</b>	<b>333.03</b>	<b>377.80</b>	<b>10.64</b>

**Note: Load Summary on May 29, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	238.99	247.19	270.60
2	Eastern Grid	49.07	50.11	62.83
	<b>National</b>	<b>288.06</b>	<b>297.30</b>	<b>333.43</b>

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 30, 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	90.55	400kV THP - Siliguri Fdr- I	63.31	+	Unit-III & V standby
		Unit- II	79.56	400kV THP - Siliguri Fdr- II	63.38	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	61.44	+	
		Unit- IV	70.84	400kV THP - Malbase Fdr- III	125.77	+	
		Unit- V	0.00	400kV Malbase - Siliguri	47.19	+	
		Unit- VI	81.38				
		<b>Total</b>	<b>322.33</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>8.43</b>	
2	CHP	Unit- I	48.98	220kV CHP - Birpara Fdr- I	24.12	+	Unit- II Standby □
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	24.29	+	
		Unit- III	50.01	220kV CHP - Malbase Fdr- III	87.85	+	
		Unit- IV	59.86	220kV CHP - Semtokha Fdr- IV	3.53	+	
				220kV Malbase - Birpara Fdr.	-27.31	-	
				66kV CHP - Chumdo Fdr.	12.11	+	
				66kV CHP - Gedu Fdr.	5.59	+	
				3x3MVA, 66/11kV TFR	0.84	+	
		<b>Total</b>	<b>158.85</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.52</b>	
3	BHP (U/S)	Unit- I	6.52	220kV BHP - Semtokha Fdr.	18.27	+	Upper stage unit II Standby.Lower Stage Unit-II standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.12	+	
		<b>Total</b>	<b>6.52</b>	220kV BHP - Tsirang Fdr.		-3.23	
	BHP (L/S)	Unit- I	17.70	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>17.70</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-0.33</b>	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	18.22	+	Unit-I standby.
		Unit-II	18.44	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>18.44</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.22</b>	
5	KHP	Unit- I	15.82	132kV KHP - Nangkhor Fdr- I	59.93	+	
		Unit-II	15.91	132kV KHP - Kilikhar Fdr- II	4.16	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	2.63	+	
		Unit- IV	16.69	132kV Gelephu - Salakati Fdr.	0.30	+	
				132kV Motanga - Rangia Fdr.	27.69	+	
				220kV Tsirang - Jigmeling	13.73	+	
		<b>Total</b>	<b>64.84</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-1.88</b>	

Note: Load summary on May 30, 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	523.84	253.69	244.85	256.42	8.84
2	Eastern Grid	64.84	50.58	52.46	27.99	-1.88
	<b>Total</b>	588.68	304.27	297.31	284.41	6.96

Note: Load Summary on May 30, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	208.77	237.53	270.60
2	Eastern Grid	39.00	50.24	62.83
	<b>National</b>	<b>247.77</b>	<b>287.77</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.
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