

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

**Date:** May 4, 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	185.47	400kV THP - Siliguri Fdr- I	271.15	+	
		Unit- II	183.19	400kV THP - Siliguri Fdr- II	269.00	+	
		Unit- III	188.62	400kV THP - Siliguri Fdr- IV	262.65	+	
		Unit- IV	184.74	400kV THP - Malbase Fdr- III	298.62	+	
		Unit- V	184.13	400kV Malbase - Siliguri	246.95	+	
		Unit- VI	185.15				
		<b>Total</b>	<b>1,111.30</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>9.88</b>		
2	CHP	Unit- I	91.60	220kV CHP - Birpara Fdr- I	107.04	+	
		Unit- II	90.88	220kV CHP - Birpara Fdr- II	107.21	+	
		Unit- III	91.43	220kV CHP - Malbase Fdr- III	173.99	+	
		Unit- IV	91.72	220kV CHP - Semtokha Fdr- IV	-38.82	-	
				220kV Malbase - Birpara Fdr.	40.36	+	
				66kV CHP - Chumdo Fdr.	5.83	+	
				66kV CHP - Gedu Fdr.	9.13	+	
				3x3MVA, 66/11kV TFR	1.41	+	
		<b>Total</b>	<b>365.63</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.16</b>		
3	BHP (U/S)	Unit- I	11.85	220kV BHP - Semtokha Fdr.	83.65	+	
		Unit- II	11.70	66kV BHP - Lobeysa Fdr.	13.31	+	
		<b>Total</b>	<b>23.55</b>	220kV BHP - Tsirang Fdr.	-33.10	-	
	BHP (L/S)	Unit- I	20.00	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	20.17	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>40.17</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.76</b>		
4	DHPC	Unit-I	40.27	220kV DHPC - Tsirang Fdr.	87.73	+	
		Unit-II	47.92	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>88.19</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.46</b>		
5	KHP	Unit- I	16.53	132kV KHP - Nangkhor Fdr- I	56.53	+	
		Unit-II	16.56	132kV KHP - Kilikhar Fdr- II	8.78	+	
		Unit- III	16.51	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.45	132kV Gelephu - Salakati Fdr.	28.21	+	
				132kV Motanga - Rangia Fdr.	21.44	+	
				220kV Tsirang - Jigmeling	48.63	+	
		<b>Total</b>	<b>66.05</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		

**Note: Load summary on May 04, 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	1,628.84	275.85	266.43	1,304.36	9.42
2	Eastern Grid	66.05	65.03	64.79	49.65	0.24
<b>Total</b>	<b>Total</b>	1,694.89	340.88	331.22	1,354.01	9.66

**Note: Load Summary on May 04, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	268.75	270.36	270.60
2	Eastern Grid	55.95	55.95	62.83
<b>Total</b>	<b>National</b>	324.70	326.31	333.43

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

**Date:** May 5, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks	
1	THP	Unit- I	183.72	400kV THP - Siliguri Fdr- I	236.73	+		
		Unit- II	169.39	400kV THP - Siliguri Fdr- II	234.03	+		
		Unit- III	140.68	400kV THP - Siliguri Fdr- IV	228.28	+		
		Unit- IV	140.00	400kV THP - Malbase Fdr- III	297.06	+		
		Unit- V	184.38	400kV Malbase - Siliguri	206.17	+		
		Unit- VI	184.13					
		<b>Total</b>	<b>1,002.30</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>6.20</b>		
2	CHP	Unit- I	91.29	220kV CHP - Birpara Fdr- I	96.33	+		
		Unit- II	91.40	220kV CHP - Birpara Fdr- II	96.67	+		
		Unit- III	91.23	220kV CHP - Malbase Fdr- III	175.91	+		
		Unit- IV	91.73	220kV CHP - Semtokha Fdr- IV	-18.34	-		
				220kV Malbase - Birpara Fdr.	21.89	+		
				66kV CHP - Chumdo Fdr.	4.24	+		
				66kV CHP - Gedu Fdr.	8.55	+		
				3x3MVA, 66/11kV TFR	1.00	+		
		<b>Total</b>	<b>365.65</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.29</b>		
3	BHP (U/S)	Unit- I	7.20	220kV BHP - Semtokha Fdr.	48.07	+		
		Unit- II	7.10	66kV BHP - Lobeysa Fdr.	12.87	+		
		<b>Total</b>	<b>14.30</b>	220kV BHP - Tsirang Fdr.		-21.11		-
	BHP (L/S)	Unit- I	12.30	5MVA, 66/11kV TFR		0.40		+
		Unit- II	13.60	30MVA ICT, 220/66kV				
		<b>Total</b>	<b>25.90</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-0.03</b>		
4	DHPC	Unit-I	28.31	220kV DHPC - Tsirang Fdr.	57.64	+		
		Unit-II	29.75	220kV DHPC - Jigmeling Fdr.	0.00			
				5MVA, 220/33kV TFR		0.00		
		<b>Total</b>	<b>58.06</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.42</b>		
5	KHP	Unit- I	16.44	132kV KHP - Nangkhor Fdr- I	60.13	+		
		Unit-II	16.61	132kV KHP - Kilikhar Fdr- II	5.26	+		
		Unit- III	16.55	5MVA, 132/11kV TFR		0.40		+
		Unit- IV	16.42	132kV Gelephu - Salakati Fdr.	20.53	+		
				132kV Motanga - Rangia Fdr.	30.88	+		
				220kV Tsirang - Jigmeling	36.34	+		
		<b>Total</b>	<b>66.02</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.23</b>		

**Note: Load summary on May 05, 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	1,466.21	309.77	301.89	1,120.10	7.88
2	Eastern Grid	66.02	50.95	50.72	51.41	0.23
	<b>Total</b>	1,532.23	360.72	352.61	1,171.51	8.11

**Note: Load Summary on May 05, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	221.22	270.60	270.60
2	Eastern Grid	44.70	52.27	62.83
	<b>National</b>	<b>265.92</b>	<b>322.87</b>	<b>333.43</b>

**NOTES:**

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  - 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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