

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 26, 2019  
**Hours:** 4/26/2019 19:06

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	146.46	400kV THP - Siliguri Fdr- I	119.66	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	118.64	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	148.66	400kV THP - Malbase Fdr- III	201.43	+	
		Unit- V	148.51	400kV Malbase - Siliguri	92.85	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>443.63</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.90</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	39.63	+	Unit-I under AM.
		Unit- II	78.06	220kV CHP - Birpara Fdr- II	39.75	+	
		Unit- III	78.95	220kV CHP - Malbase Fdr- III	84.46	+	
		Unit- IV	75.19	220kV CHP - Semtokha Fdr- IV	48.50	+	
				220kV Malbase - Birpara Fdr.	-0.80		
				66kV CHP - Chumdo Fdr.	9.18	+	
				66kV CHP - Gedu Fdr.	7.46	+	
				3x3MVA, 66/11kV TFR	1.30	+	
		<b>Total</b>	<b>232.20</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.92</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-8.64	-	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	4.94	66kV BHP - Lobeysa Fdr.	10.82	+	
		<b>Total</b>	<b>4.94</b>	220kV BHP - Tsirang Fdr.	13.49	+	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.43</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.98</b>		
4	DHPC	Unit-I	17.28	220kV DHPC - Tsirang Fdr.	17.06	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>17.28</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
5	KHP	Unit- I	14.35	132kV KHP - Nangkhor Fdr- I	33.12	+	Unit-II Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.03	+	
		Unit- III	15.36	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	14.20	132kV Gelephu - Salakati Fdr.	-13.42	-	
				132kV Motanga - Rangia Fdr.	26.75	+	
				220kV Tsirang - Jigmeling	26.23	+	
		<b>Total</b>	<b>43.91</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.36</b>		

**Note: Load summary on April 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	710.48	274.52	267.50	409.73	7.02
2	Eastern Grid	43.91	56.81	56.45	13.33	0.36
<b>Total</b>	<b>Total</b>	754.39	331.33	323.95	423.06	7.38

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	194.87	202.22	304.53
2	Eastern Grid	53.36	53.36	71.59
<b>Total</b>	<b>National</b>	248.23	255.58	376.12

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:** April 27, 2019  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	176.21	400kV THP - Siliguri Fdr- I	164.70	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	161.98	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	178.41	400kV THP - Malbase Fdr- III	200.51	+	
		Unit- V	177.82	400kV Malbase - Siliguri	145.06	+	
		Unit- VI	0.00				
		<b>Total</b>	<b>532.44</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>5.25</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	39.63	+	Unit-I under AM.
		Unit- II	78.06	220kV CHP - Birpara Fdr- II	39.75	+	
		Unit- III	78.95	220kV CHP - Malbase Fdr- III	84.46	+	
		Unit- IV	75.19	220kV CHP - Semtokha Fdr- IV	48.50	+	
				220kV Malbase - Birpara Fdr.	0.00		
				66kV CHP - Chumdo Fdr.	9.18	+	
				66kV CHP - Gedu Fdr.	7.46	+	
				3x3MVA, 66/11kV TFR	1.30	+	
		<b>Total</b>	<b>232.20</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.92</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-8.64	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby. □
		Unit- II	4.94	66kV BHP - Lobeysa Fdr.	10.82	+	
		<b>Total</b>	<b>4.94</b>	220kV BHP - Tsirang Fdr.		13.49	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>12.43</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.98</b>	
4	DHPC	Unit-I	17.28	220kV DHPC - Tsirang Fdr.	17.06	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.00	+	
		<b>Total</b>	<b>17.28</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.22</b>	
5	KHP	Unit- I	13.12	132kV KHP - Nangkhor Fdr- I	49.93	+	Unit-II Standby
		Unit-II	13.28	132kV KHP - Kilikhar Fdr- II	3.84	+	
		Unit- III	15.38	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	13.12	132kV Gelephu - Salakati Fdr.	-4.04	-	
				132kV Motanga - Rangia Fdr.	18.30	+	
				220kV Tsirang - Jigmeling	8.90	+	
		<b>Total</b>	<b>54.90</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.83</b>	

**Note: Load summary on April 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	799.29	239.27	230.90	551.12	8.37
2	Eastern Grid	54.90	49.54	48.71	14.26	0.83
	<b>Total</b>	854.19	288.81	279.61	565.38	9.20

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	144.11	199.11	304.53
2	Eastern Grid	39.62	50.33	71.59
	<b>National</b>	<b>183.73</b>	<b>249.44</b>	<b>376.12</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
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