

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

**Date:** April 30, 2018  
**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	0.00		Unit-III under annual maintenance. Unit- IV Standby. Unit-I and V under break down. 400kV THP-SIL fdr I breakdown .
		Unit- II	167.95	400kV THP - Siliguri Fdr- II	80.94	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	76.22	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	188.11	+	
		Unit- V	0.00	400kV Malbase - Siliguri	52.56	+	
		Unit- VI	179.51				
		<b>Total</b>	<b>347.46</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.19</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	6.60	+	Unit-I under annual maintenance Unit-II under standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	6.50	+	
		Unit- III	64.21	220kV CHP - Malbase Fdr- III	40.98	+	
		Unit- IV	64.55	220kV CHP - Semtokha Fdr- IV	48.36	+	
				220kV Malbase - Birpara Fdr.	-21.20	-	
				66kV CHP - Chumdo Fdr.	19.64	+	
				66kV CHP - Gedu Fdr.	3.40	+	
				3x3MVA, 66/11kV TFR	1.00	+	
		<b>Total</b>	<b>128.76</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.28</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-7.24	-	BHP (U/S) unit-I & BHP (L/S) unit-II Standby.
		Unit- II	9.15	66kV BHP - Lobeysa Fdr.	13.15	+	
		<b>Total</b>	<b>9.15</b>	220kV BHP - Tsirang Fdr.		18.51	
	BHP (L/S)	Unit- I	16.79	5MVA, 66/11kV TFR	1.29	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>16.79</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.23</b>	
4	DHPC	Unit-I	24.02	220kV DHPC - Tsirang Fdr.	23.79		DHP Unit II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>24.02</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.23</b>	
5	KHP	Unit- I	12.89	132kV KHP - Nangkhor Fdr- I	31.71	+	Unit- IV Standby
		Unit-II	13.21	132kV KHP - Kilikhar Fdr- II	9.64	+	
		Unit- III	16.12	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-4.39	-	
				132kV Motanga - Rangia Fdr.	21.61	+	
				220kV Tsirang - Jigmeling	39.00	+	
		<b>Total</b>	<b>42.22</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.47</b>	

**Note: Load summary on April 30, 2018 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	526.18	285.56	280.63	201.62	4.93
2	Eastern Grid	42.22	64.00	63.53	17.22	0.47
	<b>Total</b>	568.40	349.56	344.16	218.84	5.40

**Note: Load Summary on April 30, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	271.20	273.57	279.08
2	Eastern Grid	48.39	48.39	63.98
	<b>National</b>	<b>319.59</b>	<b>321.96</b>	<b>338.53</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	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

**Date:** May 1, 2018  
**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	0.00		Unit-III under annual maintenance. Unit- IV Standby. Unit-I and V under break down. 400kV THP-SIL fdr I breakdown .
		Unit- II	177.41	400kV THP - Siliguri Fdr- II	98.34	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	93.07	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	160.38	+	
		Unit- V	0.00	400kV Malbase - Siliguri	79.13	+	
		Unit- VI	179.26				
		<b>Total</b>	<b>356.67</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.88</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	44.86	+	Unit-I under Annual Maintenance
		Unit- II	73.44	220kV CHP - Birpara Fdr- II	44.69	+	
		Unit- III	76.17	220kV CHP - Malbase Fdr- III	108.86	+	
		Unit- IV	77.52	220kV CHP - Semtokha Fdr- IV	12.48	+	
				220kV Malbase - Birpara Fdr.	-10.40	-	
				66kV CHP - Chumdo Fdr.	11.60	+	
				66kV CHP - Gedu Fdr.	2.06	+	
				3x3MVA, 66/11kV TFR	0.55	+	
		<b>Total</b>	<b>227.13</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.03</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	12.19	+	BHP (U/S)unit-I & BHP (L/S) unit-II Standby.
		Unit- II	7.60	66kV BHP - Lobeysa Fdr.	9.26	+	
		<b>Total</b>	<b>7.60</b>	220kV BHP - Tsirang Fdr.	1.80	+	
	BHP (L/S)	Unit- I	16.21	5MVA, 66/11kV TFR	0.47	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>16.21</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.09</b>		
4	DHPC	Unit-I	38.04	220kV DHPC - Tsirang Fdr.	37.81	+	DHPC units-II on Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>38.04</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	16.37	132kV KHP - Nangkhor Fdr- I	60.25	+	
		Unit-II	16.60	132kV KHP - Kilikhar Fdr- II	3.99	+	
		Unit- III	16.38	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.20	132kV Gelephu - Salakati Fdr.	18.40	+	
				132kV Motanga - Rangia Fdr.	36.98	+	
				220kV Tsirang - Jigmeling	37.00	+	
		<b>Total</b>	<b>65.55</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.91</b>		

Note: Load summary on May 01, 2018 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	645.65	258.96	251.73	349.69	7.23
2	Eastern Grid	65.55	47.17	46.26	55.38	0.91
	<b>Total</b>	711.20	306.13	297.99	405.07	8.14

Note: Load Summary on May 01, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	238.11	271.41	286.43
2	Eastern Grid	35.79	49.64	67.48
	<b>National</b>	<b>273.90</b>	<b>321.05</b>	<b>342.69</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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