

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** April 17, 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 under break down. 400kV THP-SIL fdr I breakdown & 400kV THP_SIL fdr.IV standby.
		Unit- II	109.80	400kV THP - Siliguri Fdr- II	50.71	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	155.51	+	
		Unit- V	0.00	400kV Malbase - Siliguri	23.81	+	
		Unit- VI	99.71				
		<b>Total</b>	<b>209.51</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>3.29</b>	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-4.61	-	Unit-I & IV under annual maintenance
		Unit- II	52.08	220kV CHP - Birpara Fdr- II	-4.63	-	
		Unit- III	59.87	220kV CHP - Malbase Fdr- III	24.32	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	74.25	+	
				220kV Malbase - Birpara Fdr.	-26.64	-	
				66kV CHP - Chumdo Fdr.	11.04	+	
				66kV CHP - Gedu Fdr.	8.49	+	
				3x3MVA, 66/11kV TFR	0.96	+	
		<b>Total</b>	<b>111.95</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.13</b>	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-23.00	-	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.50	66kV BHP - Lobeysa Fdr.	11.58	+	
		<b>Total</b>	<b>4.50</b>	220kV BHP - Tsirang Fdr.		24.90	
	BHP (L/S)	Unit- I	9.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>9.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-0.88</b>	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 26/04/2018
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>0.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.00</b>	
5	KHP	Unit- I	16.16	132kV KHP - Nangkhor Fdr- I	22.52	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.00	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.10	132kV Gelephu - Salakati Fdr.	-16.50	-	
				132kV Motanga - Rangia Fdr.	11.76	+	
				220kV Tsirang - Jigmeling	21.35	+	
		<b>Total</b>	<b>32.26</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.44</b>	

**Note: Load summary on April 17, 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	334.96	274.97	270.43	38.64	4.54
2	Eastern Grid	32.26	58.35	57.91	-4.74	0.44
	<b>Total</b>	367.22	333.32	328.34	33.90	4.98

**Note: Load Summary on April 17, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.91	251.91	279.08
2	Eastern Grid	59.01	59.01	63.98
	<b>National</b>	<b>310.92</b>	<b>310.92</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:** April 18, 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& V Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown. 400kV THP_SIL IV Standby.
		Unit- II	136.91	400kV THP - Siliguri Fdr- II	77.22	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	155.69	+	
		Unit- V	0.00	400kV Malbase - Siliguri	52.95	+	
		Unit- VI	99.81				
		<b>Total</b>	<b>236.72</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.81</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	3.69	+	Unit-I & IV under annual maintenance
		Unit- II	47.64	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	53.19	220kV CHP - Malbase Fdr- III	38.09	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	38.53	+	
				220kV Malbase - Birpara Fdr.	-23.08	-	
				66kV CHP - Chumdo Fdr.	10.72	+	
				66kV CHP - Gedu Fdr.	7.38	+	
		<b>Total</b>	<b>100.83</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.78</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-6.51	-	(U/S) Unit I& (L/S) Unit I Standby
		Unit- II	6.49	66kV BHP - Lobeysa Fdr.	6.88	+	
		<b>Total</b>	<b>6.49</b>	220kV BHP - Tsirang Fdr.	15.56	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.33	+	
		Unit- II	14.69	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>14.69</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.92</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 26/04/2018
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>0.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.00</b>		
5	KHP	Unit- I	16.34	132kV KHP - Nangkhor Fdr- I	29.45	+	Unit-II shutdown. Unit III Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.27	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.62	132kV Gelephu - Salakati Fdr.	-8.23	-	
				132kV Motanga - Rangia Fdr.	23.60	+	
				220kV Tsirang - Jigmeling	9.00	+	
		<b>Total</b>	<b>32.96</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.06</b>		

**Note: Load summary on April 18, 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	358.73	238.95	228.44	110.78	10.51
2	Eastern Grid	32.96	26.59	26.65	15.37	-0.06
	<b>Total</b>	<b>391.69</b>	<b>265.54</b>	<b>255.09</b>	<b>126.15</b>	<b>10.45</b>

**Note: Load Summary on April 18, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	56.58	240.65	266.18
2	Eastern Grid	46.17	44.76	63.98
	<b>National</b>	<b>102.75</b>	<b>285.41</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.
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