

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

**Date:** April 18, 2018  
**Hours:** 19:00 Hours

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

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 ☐
		Unit- II	136.63	400kV THP - Siliguri Fdr- II	41.93	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	38.79	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	151.85	+	
		Unit- V	0.00	400kV Malbase - Siliguri	17.08	+	
		Unit- VI	99.67				
		<b>Total</b>	<b>236.30</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.73</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	1.19	+	Unit-I & IV under annual maintenance. 220kV CHP_Birpara II Under BREAKDOWN
		Unit- II	62.33	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	61.01	220kV CHP - Malbase Fdr- III	28.99	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	67.78	+	
				220kV Malbase - Birpara Fdr.	-18.61	-	
				66kV CHP - Chumdo Fdr.	15.09	+	
				66kV CHP - Gedu Fdr.	6.99	+	
				3x3MVA, 66/11kV TFR	0.93	+	
		<b>Total</b>	<b>123.34</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.37</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-23.07	-	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.69	66kV BHP - Lobeysa Fdr.	11.16	+	
		<b>Total</b>	<b>4.69</b>	220kV BHP - Tsirang Fdr.	24.89	+	
	BHP (L/S)	Unit- I	9.56	5MVA, 66/11kV TFR	0.81	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>9.56</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.46</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	0.00	132kV KHP - Nangkhor Fdr- I	19.40	+	Unit-I standby & Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.07	+	
		Unit- III	14.88	5MVA, 132/11kV TFR	0.02	+	
		Unit- IV	14.82	132kV Gelephu - Salakati Fdr.	-18.10	-	
				132kV Motanga - Rangia Fdr.	7.51	+	
				220kV Tsirang - Jigmeling	21.27	+	
		<b>Total</b>	<b>29.70</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.21</b>		

**Note: Load summary on April 18, 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	373.89	272.24	265.68	80.38	6.56
2	Eastern Grid	29.70	61.56	60.35	-10.59	1.21
	<b>Total</b>	403.59	333.80	326.03	69.79	7.77

**Note: Load Summary on April 18, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	264.46	266.18	279.08
2	Eastern Grid	63.98	63.98	63.98
	<b>National</b>	<b>328.44</b>	<b>330.16</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 19, 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 breakdown. 400kV THP-SIL fdr I breakdown.
		Unit- II	107.16	400kV THP - Siliguri Fdr- II	48.70	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	43.82	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	129.85	+	
		Unit- V	0.00	400kV Malbase - Siliguri	28.58	+	
		Unit- VI	119.59				
		<b>Total</b>	<b>226.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.38</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-3.55	-	Unit-I & IV under annual maintenance. 220kV CHP-BIR FDR II Under BREAKDOWN
		Unit- II	50.99	220kV CHP - Birpara Fdr- II	0.00		
		Unit- III	60.84	220kV CHP - Malbase Fdr- III	45.33	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	48.89	+	
				220kV Malbase - Birpara Fdr.	-40.04	-	
				66kV CHP - Chumdo Fdr.	9.26	+	
				66kV CHP - Gedu Fdr.	9.58	+	
				3x3MVA, 66/11kV TFR	0.60	+	
		<b>Total</b>	<b>111.83</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.72</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-20.81	-	(U/S) Unit I & (L/S) Unit I Standby
		Unit- II	4.45	66kV BHP - Lobeysa Fdr.	7.40	+	
		<b>Total</b>	<b>4.45</b>	220kV BHP - Tsirang Fdr.	26.47	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.29	+	
		Unit- II	9.14	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>9.14</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.24</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	0.00	132kV KHP - Nangkhor Fdr- I	20.41	+	Unit-II shutdown. Unit I Standby 132kV GEL-SAL FDR under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.27	+	
		Unit- III	12.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.25	132kV Gelephu - Salakati Fdr.	0.00		
				132kV Motanga - Rangia Fdr.	2.94	+	
				220kV Tsirang - Jigmeling	27.00	+	
		<b>Total</b>	<b>24.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.77</b>		

Note: Load summary on April 19, 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	352.17	247.66	241.32	77.51	6.34
2	Eastern Grid	24.75	48.81	48.04	2.94	0.77
	<b>Total</b>	<b>376.92</b>	<b>296.47</b>	<b>289.36</b>	<b>80.45</b>	<b>7.11</b>

Note: Load Summary on April 19, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	56.58	243.66	270.70
2	Eastern Grid	46.17	48.55	60.54
	<b>National</b>	<b>102.75</b>	<b>292.21</b>	<b>338.53</b>

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