

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** June 27, 2018  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	168.94	400kV THP - Siliguri Fdr- I	0.00	+	Unit - IV Standby
		Unit- II	167.52	400kV THP - Siliguri Fdr- II	256.66	+	
		Unit- III	168.13	400kV THP - Siliguri Fdr- IV	244.83	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	333.32	+	
		Unit- V	168.24	400kV Malbase - Siliguri	221.73	+	
		Unit- VI	168.66				
		<b>Total</b>	<b>841.49</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.68</b>		
2	CHP	Unit- I	91.88	220kV CHP - Birpara Fdr- I	92.64	+	
		Unit- II	91.52	220kV CHP - Birpara Fdr- II	92.31	+	
		Unit- III	91.87	220kV CHP - Malbase Fdr- III	129.84	+	
		Unit- IV	92.23	220kV CHP - Semtokha Fdr- IV	27.35	+	
				220kV Malbase - Birpara Fdr.	51.11	+	
				66kV CHP - Chumdo Fdr.	11.08	+	
				66kV CHP - Gedu Fdr.	9.02	+	
				3x3MVA, 66/11kV TFR	1.17	+	
		<b>Total</b>	<b>367.50</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.09</b>		
3	BHP (U/S)	Unit- I	6.20	220kV BHP - Semtokha Fdr.	-6.05	+	
		Unit- II	5.90	66kV BHP - Lobeysa Fdr.	9.50	+	
		<b>Total</b>	<b>12.10</b>	220kV BHP - Tsirang Fdr.	29.40	+	
	BHP (L/S)	Unit- I	10.20	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	11.80	30MVA ICT, 220/66kV			
<b>Total</b>	<b>22.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.36</b>				
4	DHPC	Unit-I	35.06	220kV DHPC - Tsirang Fdr.	34.82	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>35.06</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
5	KHP	Unit- I	16.19	132kV KHP - Nangkhor Fdr- I	57.37	+	
		Unit-II	16.32	132kV KHP - Kilikhar Fdr- II	7.30	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.19	132kV Gelephu - Salakati Fdr.	22.56	+	
				132kV Motanga - Rangia Fdr.	54.17	+	
				220kV Tsirang - Jigmeling	60.60	+	
		<b>Total</b>	<b>65.12</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.05</b>		

**Note: Load summary on June 27, 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	1,278.15	258.27	246.90	959.28	11.37
2	Eastern Grid	65.12	48.99	48.94	76.73	0.05
	<b>Total</b>	1,343.27	307.26	295.84	1,036.01	11.42

**Note: Load Summary on June 27, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	224.48	224.48	272.24
2	Eastern Grid	41.87	56.15	60.94
	<b>National</b>	<b>266.35</b>	<b>280.63</b>	<b>322.46</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:** June 28, 2018  
**Hours:** 09:00 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	163.53	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II under shutdown & IV Standby, THP-SIL-I under breakdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	199.50	+	
		Unit- III	168.03	400kV THP - Siliguri Fdr- IV	191.42	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	214.86	+	
		Unit- V	139.32	400kV Malbase - Siliguri	182.00	+	
		Unit- VI	139.14				
		<b>Total</b>	<b>610.02</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.24</b>		
2	CHP	Unit- I	91.46	220kV CHP - Birpara Fdr- I	89.52	+	
		Unit- II	91.51	220kV CHP - Birpara Fdr- II	89.51	+	
		Unit- III	91.15	220kV CHP - Malbase Fdr- III	166.58	+	
		Unit- IV	91.73	220kV CHP - Semtokha Fdr- IV	-2.46	+	
				220kV Malbase - Birpara Fdr.	18.30	+	
				66kV CHP - Chumdo Fdr.	8.09	+	
				66kV CHP - Gedu Fdr.	11.24	+	
				3x3MVA, 66/11kV TFR	0.82	+	
		<b>Total</b>	<b>365.85</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.55</b>		
3	BHP (U/S)	Unit- I	7.10	220kV BHP - Semtokha Fdr.	14.39	+	
		Unit- II	6.90	66kV BHP - Lobeysa Fdr.	10.51	+	
		<b>Total</b>	<b>14.00</b>	220kV BHP - Tsirang Fdr.	12.10	+	
	BHP (L/S)	Unit- I	11.80	5MVA, 66/11kV TFR	0.85	+	
		Unit- II	13.00	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>24.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.95</b>		
4	DHPC	Unit-I	35.08	220kV DHPC - Tsirang Fdr.	34.78	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>35.08</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.30</b>		
5	KHP	Unit- I	16.39	132kV KHP - Nangkhor Fdr- I	60.80	+	Unit-II standby
		Unit-II	16.58	132kV KHP - Kilikhar Fdr- II	4.09	+	
		Unit- III	16.63	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.47	132kV Gelephu - Salakati Fdr.	21.19	+	
				132kV Motanga - Rangia Fdr.	47.28	+	
				220kV Tsirang - Jigmeling	40.30	+	
		<b>Total</b>	<b>66.07</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.78</b>		

**Note: Load summary on June 28, 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	1,049.75	239.20	231.16	770.25	8.04
2	Eastern Grid	66.07	37.90	37.12	68.47	0.78
	<b>Total</b>	1,115.82	277.10	268.28	838.72	8.82

**Note: Load Summary on June 28, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	195.80	225.69	272.24
2	Eastern Grid	40.40	47.60	60.94
	<b>National</b>	<b>236.20</b>	<b>273.29</b>	<b>322.46</b>

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