

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** June 14, 2018  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	97.38	400kV THP - Siliguri Fdr- I	138.84		Unit-II standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	138.02	+	
		Unit- III	100.63	400kV THP - Siliguri Fdr- IV	133.06	+	
		Unit- IV	138.41	400kV THP - Malbase Fdr- III	189.51	+	
		Unit- V	118.55	400kV Malbase - Siliguri	118.98	+	
		Unit- VI	149.11				
		<b>Total</b>	<b>604.08</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.65</b>		
2	CHP	Unit- I	76.20	220kV CHP - Birpara Fdr- I	76.87	+	
		Unit- II	79.99	220kV CHP - Birpara Fdr- II	77.07	+	
		Unit- III	77.22	220kV CHP - Malbase Fdr- III	130.03	+	
		Unit- IV	72.76	220kV CHP - Semtokha Fdr- IV	-1.91	+	
				220kV Malbase - Birpara Fdr.	27.36	+	
				66kV CHP - Chumdo Fdr.	12.47	+	
				66kV CHP - Gedu Fdr.	8.49	+	
				3x3MVA, 66/11kV TFR	1.11	+	
		<b>Total</b>	<b>306.17</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.04</b>		
3	BHP (U/S)	Unit- I	9.89	220kV BHP - Semtokha Fdr.	21.06	+	
		Unit- II	9.89	66kV BHP - Lobeysa Fdr.	14.78	+	
		<b>Total</b>	<b>19.78</b>	220kV BHP - Tsirang Fdr.	16.23	+	
	BHP (L/S)	Unit- I	16.59	5MVA, 66/11kV TFR	0.58	+	
		Unit- II	16.97	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>33.56</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.69</b>		
4	DHPC	Unit-I	25.04	220kV DHPC - Tsirang Fdr.	47.83	+	
		Unit-II	23.24	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>48.28</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.45</b>		
5	KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	55.35	+	
		Unit-II	16.14	132kV KHP - Kilikhar Fdr- II	8.23	+	
		Unit- III	16.15	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	22.70	+	
				132kV Motanga - Rangia Fdr.	44.70	+	
				220kV Tsirang - Jigmeling	62.80	+	
		<b>Total</b>	<b>65.11</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.03</b>		

**Note: Load summary on June 14, 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	1,011.87	238.87	231.04	710.20	7.83
2	Eastern Grid	65.11	60.51	59.48	67.40	1.03
	<b>Total</b>	1,076.98	299.38	290.52	777.60	8.86

**Note: Load Summary on June 14, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	228.91	250.25	286.43
2	Eastern Grid	30.44	44.96	67.48
	<b>National</b>	<b>259.35</b>	<b>295.21</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.
  - 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:** June 15, 2018  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	165.62	400kV THP - Siliguri Fdr- I	0.00	+	400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	272.67	+	
		Unit- III	167.97	400kV THP - Siliguri Fdr- IV	261.21	+	
		Unit- IV	168.18	400kV THP - Malbase Fdr- III	282.91	+	
		Unit- V	168.03	400kV Malbase - Siliguri	248.82	+	
		Unit- VI	149.00				
		<b>Total</b>	<b>818.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.01</b>	
2	CHP	Unit- I	91.59	220kV CHP - Birpara Fdr- I	97.24	+	
		Unit- II	90.26	220kV CHP - Birpara Fdr- II	97.42	+	
		Unit- III	91.87	220kV CHP - Malbase Fdr- III	174.32	+	
		Unit- IV	91.47	220kV CHP - Semtokha Fdr- IV	-27.86	-	
				220kV Malbase - Birpara Fdr.	25.04	+	
				66kV CHP - Chumdo Fdr.	8.32	+	
				66kV CHP - Gedu Fdr.	12.14	+	
				3x3MVA, 66/11kV TFR	0.74	+	
		<b>Total</b>	<b>365.19</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.87</b>	
3	BHP (U/S)	Unit- I	10.60	220kV BHP - Semtokha Fdr.	39.83	+	
		Unit- II	10.60	66kV BHP - Lobeysa Fdr.	13.69	+	
		<b>Total</b>	<b>21.20</b>	220kV BHP - Tsirang Fdr.		3.94	
	BHP (L/S)	Unit- I	17.51	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	17.81	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>35.32</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>-1.34</b>	
4	DHPC	Unit-I	45.06	220kV DHPC - Tsirang Fdr.	44.76	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>45.06</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.30</b>	
5	KHP	Unit- I	11.27	132kV KHP - Nangkhor Fdr- I	45.46	+	
		Unit-II	10.10	132kV KHP - Kilikhar Fdr- II	3.73	+	
		Unit- III	15.28	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	15.82	132kV Gelephu - Salakati Fdr.	26.00	+	
				132kV Motanga - Rangia Fdr.	26.40	+	
				220kV Tsirang - Jigmeling	45.70	+	
		<b>Total</b>	<b>52.47</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.98</b>	

**Note: Load summary on June 15, 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	1,285.57	237.47	233.63	1,002.40	3.84
2	Eastern Grid	52.47	45.77	42.79	52.40	2.98
	<b>Total</b>	1,338.04	283.24	276.42	1,054.80	6.82

**Note: Load Summary on June 15, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	223.91	244.09	286.43
2	Eastern Grid	31.76	45.99	67.48
	<b>National</b>	<b>255.67</b>	<b>290.08</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:
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