

## 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:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	129.80	400kV THP - Siliguri Fdr- I	0.00		Unit-II standby. 400kV Tala-Siliguri Fdr-I under breakdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	184.75	+	
		Unit- III	98.59	400kV THP - Siliguri Fdr- IV	176.77	+	
		Unit- IV	120.65	400kV THP - Malbase Fdr- III	250.28	+	
		Unit- V	118.81	400kV Malbase - Siliguri	157.30	+	
		Unit- VI	149.86				
		<b>Total</b>	<b>617.71</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.91</b>		
2	CHP	Unit- I	74.73	220kV CHP - Birpara Fdr- I	69.70	+	
		Unit- II	75.17	220kV CHP - Birpara Fdr- II	69.92	+	
		Unit- III	74.33	220kV CHP - Malbase Fdr- III	123.95	+	
		Unit- IV	74.40	220kV CHP - Semtokha Fdr- IV	9.82	+	
				220kV Malbase - Birpara Fdr.	19.63	+	
				66kV CHP - Chumdo Fdr.	12.32	+	
				66kV CHP - Gedu Fdr.	9.57	+	
				3x3MVA, 66/11kV TFR	1.16	+	
		<b>Total</b>	<b>298.63</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.19</b>		
3	BHP (U/S)	Unit- I	11.98	220kV BHP - Semtokha Fdr.	8.14	+	
		Unit- II	11.98	66kV BHP - Lobeysa Fdr.	16.04	+	
		<b>Total</b>	<b>23.96</b>	220kV BHP - Tsirang Fdr.	38.15	+	
	BHP (L/S)	Unit- I	20.17	5MVA, 66/11kV TFR	0.61	+	
		Unit- II	20.17	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>40.34</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.36</b>		
4	DHPC	Unit-I	40.04	220kV DHPC - Tsirang Fdr.	39.76	+	
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>40.04</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.28</b>		
5	KHP	Unit- I	15.19	132kV KHP - Nangkhor Fdr- I	6.53	+	KHP units under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.27	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	13.46	+	
				132kV Motanga - Rangia Fdr.	15.06	+	
				220kV Tsirang - Jigmeling	56.39	+	
		<b>Total</b>	<b>15.19</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.11</b>		

**Note: Load summary on June 15, 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	1,020.68	286.22	276.48	678.07	9.74
2	Eastern Grid	15.19	43.06	43.17	28.52	-0.11
	<b>Total</b>	1,035.87	329.28	319.65	706.59	9.63

**Note: Load Summary on June 15, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	228.48	244.09	286.43
2	Eastern Grid	43.10	45.99	67.48
	<b>National</b>	271.58	290.08	342.69

**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 16, 2018  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.25	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II Standby. 400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	250.44	+	
		Unit- III	168.64	400kV THP - Siliguri Fdr- IV	239.05	+	
		Unit- IV	138.59	400kV THP - Malbase Fdr- III	266.26	+	
		Unit- V	119.25	400kV Malbase - Siliguri	228.38	+	
		Unit- VI	168.73				
		<b>Total</b>	<b>761.46</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.71</b>		
2	CHP	Unit- I	91.18	220kV CHP - Birpara Fdr- I	96.85	+	
		Unit- II	90.62	220kV CHP - Birpara Fdr- II	96.89	+	
		Unit- III	91.38	220kV CHP - Malbase Fdr- III	166.52	+	
		Unit- IV	90.86	220kV CHP - Semtokha Fdr- IV	-19.67	-	
				220kV Malbase - Birpara Fdr.	30.18	+	
				66kV CHP - Chumdo Fdr.	9.00	+	
				66kV CHP - Gedu Fdr.	10.39	+	
		<b>Total</b>	<b>364.04</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.16</b>		
3	BHP (U/S)	Unit- I	8.53	220kV BHP - Semtokha Fdr.	34.32	+	
		Unit- II	8.53	66kV BHP - Lobeysa Fdr.	12.10	+	
		<b>Total</b>	<b>17.06</b>	220kV BHP - Tsirang Fdr.	0.70	+	
	BHP (L/S)	Unit- I	14.62	5MVA, 66/11kV TFR	0.37	+	
		<b>Total</b>	<b>29.82</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.61</b>		
4	DHPC	Unit-I	43.05	220kV DHPC - Tsirang Fdr.	42.82	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>43.05</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
5	KHP	Unit- I	16.28	132kV KHP - Nangkhor Fdr- I	59.88	+	
		Unit-II	16.38	132kV KHP - Kilikhar Fdr- II	5.00	+	
		Unit- III	16.41	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.40	132kV Gelephu - Salakati Fdr.	25.50	+	
				132kV Motanga - Rangia Fdr.	32.98	+	
				220kV Tsirang - Jigmeling	40.52	+	
		<b>Total</b>	<b>65.47</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.29</b>		

**Note: Load summary on June 16, 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	1,215.43	233.12	224.63	941.79	8.49
2	Eastern Grid	65.47	47.51	47.22	58.48	0.29
	<b>Total</b>	1,280.90	280.63	271.85	1,000.27	8.78

**Note: Load Summary on June 16, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.85	254.19	286.43
2	Eastern Grid	33.75	51.26	67.48
	<b>National</b>	<b>271.60</b>	<b>305.45</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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