

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** June 29, 2018  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.79	400kV THP - Siliguri Fdr- I	0.00	+	Feeder I under Breakdown Unit - II Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	247.70	+	
		Unit- III	168.55	400kV THP - Siliguri Fdr- IV	236.90	+	
		Unit- IV	168.81	400kV THP - Malbase Fdr- III	304.73	+	
		Unit- V	147.55	400kV Malbase - Siliguri	216.04	+	
		Unit- VI	168.18				
		<b>Total</b>	<b>791.88</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.55</b>		
2	CHP	Unit- I	91.50	220kV CHP - Birpara Fdr- I	94.40	+	
		Unit- II	91.17	220kV CHP - Birpara Fdr- II	94.22	+	
		Unit- III	91.85	220kV CHP - Malbase Fdr- III	141.12	+	
		Unit- IV	92.30	220kV CHP - Semtokha Fdr- IV	13.62	+	
				220kV Malbase - Birpara Fdr.	45.79	+	
				66kV CHP - Chumdo Fdr.	10.74	+	
				66kV CHP - Gedu Fdr.	9.31	+	
				3x3MVA, 66/11kV TFR	1.18	+	
		<b>Total</b>	<b>366.82</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.23</b>		
3	BHP (U/S)	Unit- I	9.64	220kV BHP - Semtokha Fdr.	2.89	+	
		Unit- II	9.64	66kV BHP - Lobeysa Fdr.	13.56	+	
		<b>Total</b>	<b>19.28</b>	220kV BHP - Tsirang Fdr.	35.35	+	
	BHP (L/S)	Unit- I	17.01	5MVA, 66/11kV TFR	0.71	+	
		Unit- II	17.57	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>34.58</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.35</b>		
4	DHPC	Unit-I	38.04	220kV DHPC - Tsirang Fdr.	37.73	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>38.04</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.31</b>		
5	KHP	Unit- I	16.47	132kV KHP - Nangkhor Fdr- I	56.98	+	
		Unit-II	16.55	132kV KHP - Kilikhar Fdr- II	7.92	+	
		Unit- III	16.40	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.39	132kV Gelephu - Salakati Fdr.	25.62	+	
				132kV Motanga - Rangia Fdr.	57.82	+	
				220kV Tsirang - Jigmeling	71.30	+	
		<b>Total</b>	<b>65.81</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.51</b>		

**Note: Load summary on June 29, 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	1,250.60	244.25	237.81	935.05	6.44
2	Eastern Grid	65.81	53.67	53.16	83.44	0.51
	<b>Total</b>	1,316.41	297.92	290.97	1,018.49	6.95

**Note: Load Summary on June 29, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	221.66	226.34	272.24
2	Eastern Grid	42.95	44.73	60.94
	<b>National</b>	<b>264.61</b>	<b>271.07</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	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

**Date:** June 30, 2018  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.26	400kV THP - Siliguri Fdr- I	0.00	+	Feeder I under Breakdown Unit - II Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	203.48	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	198.00	+	
		Unit- IV	168.64	400kV THP - Malbase Fdr- III	250.02	+	
		Unit- V	148.97	400kV Malbase - Siliguri	178.96	+	
		Unit- VI	169.37				
		<b>Total</b>	<b>653.24</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.74</b>		
2	CHP	Unit- I	84.05	220kV CHP - Birpara Fdr- I	92.47	+	
		Unit- II	84.08	220kV CHP - Birpara Fdr- II	91.86	+	
		Unit- III	83.55	220kV CHP - Malbase Fdr- III	146.08	+	
		Unit- IV	81.54	220kV CHP - Semtokha Fdr- IV	-18.27	-	
				220kV Malbase - Birpara Fdr.	39.19	+	
				66kV CHP - Chumdo Fdr.	8.05	+	
				66kV CHP - Gedu Fdr.	10.15	+	
				3x3MVA, 66/11kV TFR	0.77	+	
		<b>Total</b>	<b>333.22</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.11</b>		
3	BHP (U/S)	Unit- I	8.35	220kV BHP - Semtokha Fdr.	31.82	+	
		Unit- II	8.35	66kV BHP - Lobeysa Fdr.	12.07	+	
		<b>Total</b>	<b>16.70</b>	220kV BHP - Tsirang Fdr.	3.33	+	
	BHP (L/S)	Unit- I	14.89	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	15.57	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>30.46</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.45</b>		
4	DHPC	Unit-I	53.04	220kV DHPC - Tsirang Fdr.	52.74	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>53.04</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.30</b>		
5	KHP	Unit- I	16.28	132kV KHP - Nangkhor Fdr- I	60.79	+	
		Unit-II	16.47	132kV KHP - Kilikhar Fdr- II	3.69	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.35	132kV Gelephu - Salakati Fdr.	30.57	+	
				132kV Motanga - Rangia Fdr.	49.27	+	
				220kV Tsirang - Jigmeling	56.87	+	
		<b>Total</b>	<b>65.52</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.64</b>		

**Note: Load summary on June 30, 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	1,086.66	225.83	222.13	803.96	3.70
2	Eastern Grid	65.52	42.55	41.91	79.84	0.64
	<b>Total</b>	<b>1,152.18</b>	<b>268.38</b>	<b>264.04</b>	<b>883.80</b>	<b>4.34</b>

**Note: Load Summary on June 30, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	227.42	227.42	226.34
2	Eastern Grid	38.40	45.20	60.94
	<b>National</b>	<b>265.82</b>	<b>272.62</b>	<b>322.46</b>

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