

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

**Date:** June 21, 2018  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.95	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I under breakdown Unit -IV & V Standby
		Unit- II	167.50	400kV THP - Siliguri Fdr- II	207.32	+	
		Unit- III	168.54	400kV THP - Siliguri Fdr- IV	197.78	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	264.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	180.94	+	
		Unit- VI	169.10				
		<b>Total</b>	<b>672.09</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.99</b>		
2	CHP	Unit- I	67.91	220kV CHP - Birpara Fdr- I	60.51	+	
		Unit- II	68.69	220kV CHP - Birpara Fdr- II	60.33	+	
		Unit- III	70.40	220kV CHP - Malbase Fdr- III	115.21	+	
		Unit- IV	70.93	220kV CHP - Semtokha Fdr- IV	18.31	+	
				220kV Malbase - Birpara Fdr.	10.00	+	
				66kV CHP - Chumdo Fdr.	10.96	+	
				66kV CHP - Gedu Fdr.	9.24	+	
				3x3MVA, 66/11kV TFR	1.04	+	
		<b>Total</b>	<b>277.93</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.33</b>		
3	BHP (U/S)	Unit- I	4.68	220kV BHP - Semtokha Fdr.	2.61	+	
		Unit- II	4.68	66kV BHP - Lobeysa Fdr.	10.34	+	
		<b>Total</b>	<b>9.36</b>	220kV BHP - Tsirang Fdr.	9.83	+	
	BHP (L/S)	Unit- I	8.02	5MVA, 66/11kV TFR	0.82	+	
		Unit- II	8.44	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>16.46</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>2.22</b>		
4	DHPC	Unit-I	28.54	220kV DHPC - Tsirang Fdr.	28.28	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>28.54</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		
5	KHP	Unit- I	16.76	132kV KHP - Nangkhor Fdr- I	57.23	+	
		Unit-II	16.70	132kV KHP - Kilikhar Fdr- II	8.43	+	
		Unit- III	16.63	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.64	132kV Gelephu - Salakati Fdr.	7.45	+	
				132kV Motanga - Rangia Fdr.	41.09	+	
				220kV Tsirang - Jigmeling	31.00	+	
		<b>Total</b>	<b>66.73</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.77</b>		

**Note: Load summary on June 21, 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	1,004.38	256.50	248.70	716.88	7.80
2	Eastern Grid	66.73	49.19	48.42	48.54	0.77
	<b>Total</b>	1,071.11	305.69	297.12	765.42	8.57

**Note: Load Summary on June 21, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	240.77	247.09	286.43
2	Eastern Grid	55.11	55.11	67.48
	<b>National</b>	<b>295.88</b>	<b>302.20</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 22, 2018  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	139.64	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I under breakdown Unit IV & V-Standby
		Unit- II	100.97	400kV THP - Siliguri Fdr- II	150.76	+	
		Unit- III	99.82	400kV THP - Siliguri Fdr- IV	144.94	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	179.33	+	
		Unit- V	0.00	400kV Malbase - Siliguri	134.11	+	
		Unit- VI	140.28				
		<b>Total</b>	<b>480.71</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>5.68</b>	
2	CHP	Unit- I	55.05	220kV CHP - Birpara Fdr- I	51.57	+	
		Unit- II	54.22	220kV CHP - Birpara Fdr- II	51.68	+	
		Unit- III	58.55	220kV CHP - Malbase Fdr- III	118.79	+	
		Unit- IV	62.75	220kV CHP - Semtokha Fdr- IV	-10.71	-	
				220kV Malbase - Birpara Fdr.	-6.89	-	
				66kV CHP - Chumdo Fdr.	8.31	+	
				66kV CHP - Gedu Fdr.	8.65	+	
				3x3MVA, 66/11kV TFR	0.78	+	
		<b>Total</b>	<b>230.57</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.50</b>	
3	BHP (U/S)	Unit- I	6.16	220kV BHP - Semtokha Fdr.	26.41	+	
		Unit- II	6.16	66kV BHP - Lobeysa Fdr.	10.86	+	
		<b>Total</b>	<b>12.32</b>	220kV BHP - Tsirang Fdr.		-5.71	
	BHP (L/S)	Unit- I	9.75	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	11.05	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>20.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>1.18</b>	
4	DHPC	Unit-I	33.07	220kV DHPC - Tsirang Fdr.	32.77	+	Unit II Standby
		Unit-II		220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>33.07</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.30</b>	
5	KHP	Unit- I	16.36	132kV KHP - Nangkhor Fdr- I	60.11	+	
		Unit-II	16.59	132kV KHP - Kilikhar Fdr- II	5.04	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	12.45	+	
				132kV Motanga - Rangia Fdr.	40.81	+	
				220kV Tsirang - Jigmeling	25.56	+	
		<b>Total</b>	<b>65.89</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.49</b>	

**Note: Load summary on June 22, 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	777.47	225.74	217.08	526.17	8.66
2	Eastern Grid	65.89	38.19	37.70	53.26	0.49
	<b>Total</b>	843.36	263.93	254.78	579.43	9.15

**Note: Load Summary on June 22, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.64	235.50	286.43
2	Eastern Grid	46.64	54.74	67.48
	<b>National</b>	<b>258.28</b>	<b>290.24</b>	<b>342.69</b>

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