

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	99.40	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I under breakdown Unit V-Standby
		Unit- II	138.18	400kV THP - Siliguri Fdr- II	179.46	+	
		Unit- III	99.78	400kV THP - Siliguri Fdr- IV	171.98	+	
		Unit- IV	117.94	400kV THP - Malbase Fdr- III	240.35	+	
		Unit- V	0.00	400kV Malbase - Siliguri	153.39	+	
		Unit- VI	139.91				
		<b>Total</b>	<b>595.21</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.42</b>		
2	CHP	Unit- I	80.52	220kV CHP - Birpara Fdr- I	75.20	+	
		Unit- II	78.96	220kV CHP - Birpara Fdr- II	74.94	+	
		Unit- III	81.08	220kV CHP - Malbase Fdr- III	117.68	+	
		Unit- IV	78.63	220kV CHP - Semtokha Fdr- IV	29.75	+	
				220kV Malbase - Birpara Fdr.	32.40	+	
				66kV CHP - Chumdo Fdr.	11.37	+	
				66kV CHP - Gedu Fdr.	7.79	+	
				3x3MVA, 66/11kV TFR	1.14	+	
		<b>Total</b>	<b>319.19</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.32</b>		
3	BHP (U/S)	Unit- I	5.24	220kV BHP - Semtokha Fdr.	-7.50	-	
		Unit- II	5.24	66kV BHP - Lobeysa Fdr.	11.15	+	
		<b>Total</b>	<b>10.48</b>	220kV BHP - Tsirang Fdr.	20.38	+	
	BHP (L/S)	Unit- I	7.81	5MVA, 66/11kV TFR	0.78	+	
		Unit- II	7.88	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>15.69</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.36</b>		
4	DHPC	Unit-I	39.04	220kV DHPC - Tsirang Fdr.	38.78	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>39.04</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		
5	KHP	Unit- I	16.49	132kV KHP - Nangkhor Fdr- I	57.18	+	
		Unit-II	16.59	132kV KHP - Kilikhar Fdr- II	7.69	+	
		Unit- III	16.57	5MVA, 132/11kV TFR	0.28	+	
		Unit- IV	16.30	132kV Gelephu - Salakati Fdr.	17.35	+	
				132kV Motanga - Rangia Fdr.	42.29	+	
				220kV Tsirang - Jigmeling	58.07	+	
		<b>Total</b>	<b>65.95</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.80</b>		

**Note: Load summary on June 19, 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	979.61	234.17	227.81	687.37	6.36
2	Eastern Grid	65.95	64.38	63.58	59.64	0.80
	<b>Total</b>	1,045.56	298.55	291.39	747.01	7.16

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	232.50	242.05	286.43
2	Eastern Grid	51.60	51.60	67.48
	<b>National</b>	<b>284.10</b>	<b>293.65</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 20, 2018  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.50	400kV THP - Siliguri Fdr- I	0.00	+	400kV Tala-Siliguri Fdr-I under breakdown Unit V-Standby
		Unit- II	87.37	400kV THP - Siliguri Fdr- II	153.37	+	
		Unit- III	89.54	400kV THP - Siliguri Fdr- IV	147.76	+	
		Unit- IV	89.04	400kV THP - Malbase Fdr- III	178.77	+	
		Unit- V	0.00	400kV Malbase - Siliguri	137.28	+	
		Unit- VI	80.35				
		<b>Total</b>	<b>484.80</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.90</b>		
2	CHP	Unit- I	65.34	220kV CHP - Birpara Fdr- I	58.94	+	
		Unit- II	63.38	220kV CHP - Birpara Fdr- II	58.95	+	
		Unit- III	65.34	220kV CHP - Malbase Fdr- III	124.64	+	
		Unit- IV	66.69	220kV CHP - Semtokha Fdr- IV	-0.86	-	
				220kV Malbase - Birpara Fdr.	0.44	+	
				66kV CHP - Chumdo Fdr.	8.06	+	
				66kV CHP - Gedu Fdr.	9.06	+	
				3x3MVA, 66/11kV TFR	0.77	+	
		<b>Total</b>	<b>260.75</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>1.19</b>		
3	BHP (U/S)	Unit- I	4.48	220kV BHP - Semtokha Fdr.	17.59	+	
		Unit- II	4.48	66kV BHP - Lobeysa Fdr.	9.46	+	
		<b>Total</b>	<b>8.96</b>	220kV BHP - Tsirang Fdr.	-0.72	-	
	BHP (L/S)	Unit- I	8.48	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	8.82	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>17.30</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.49</b>		
4	DHPC	Unit-I	33.06	220kV DHPC - Tsirang Fdr.	32.79	+	
		Unit-II		220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>33.06</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.27</b>		
5	KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	60.30	+	
		Unit-II	16.52	132kV KHP - Kilikhar Fdr- II	4.43	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	7.98	+	
				132kV Motanga - Rangia Fdr.	34.33	+	
				220kV Tsirang - Jigmeling	30.00	+	
		<b>Total</b>	<b>65.97</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.99</b>		

**Note: Load summary on June 20, 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	804.87	218.13	212.26	556.74	5.87
2	Eastern Grid	65.97	53.66	52.67	42.31	0.99
	<b>Total</b>	870.84	271.79	264.93	599.05	6.86

**Note: Load Summary on June 20, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.01	261.53	286.43
2	Eastern Grid	43.78	60.94	67.48
	<b>National</b>	<b>282.79</b>	<b>322.47</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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