

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Date: June 4, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	118.86	400kV THP - Siliguri Fdr- I	0.00		400kV THP - Siliguri Fdr- I Standby , Unit-III,IV & V standby
		Unit- II	79.48	400kV THP - Siliguri Fdr- II	66.08	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	60.72	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	147.71	+	
		Unit- V	0.00	400kV Malbase - Siliguri	42.49	+	
		Unit- VI	80.09				
		Total	278.43	Error At Station/Auxiliary Consumption/Losses	3.92		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	22.32	+	Unit-I & IV Standby
		Unit- II	90.43	220kV CHP - Birpara Fdr- II	22.43	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	71.04	+	
		Unit- IV	88.81	220kV CHP - Semtokha Fdr- IV	45.19	+	
				220kV Malbase - Birpara Fdr.	-18.23	-	
				66kV CHP - Chumdo Fdr.	8.08	+	
				66kV CHP - Gedu Fdr.	6.23	+	
				3x3MVA, 66/11kV TFR	0.91	+	
		Total	179.24	Error At Station/Auxiliary Consumption/Losses	3.04		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	7.05	+	Upper stage unit I Standby Lower stage unit-II standby
		Unit- II	4.96	66kV BHP - Lobeysa Fdr.	10.55	+	
		Total	4.96	220kV BHP - Tsirang Fdr.	-3.14	-	
	BHP (L/S)	Unit- I	10.10	5MVA, 66/11kV TFR	0.35	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.10	Error At Station/Auxiliary Consumption/Losses	0.25		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.09	+	Unit-I Standby
		Unit-II	17.39	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	17.39	Error At Station/Auxiliary Consumption/Losses	0.30		
5	KHP	Unit- I	16.42	132kV KHP - Nangkhor Fdr- I	40.20	+	Unit -II Standby NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.30	+	
		Unit- III	16.44	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.39	132kV Gelephu - Salakati Fdr.	-4.10	-	
				132kV Motanga - Rangia Fdr.	24.00	+	
				220kV Tsirang - Jigmeling	27.40	+	
		Total	49.25	Error At Station/Auxiliary Consumption/Losses	0.45		

Note: Load summary on June 04, 2019 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	490.12	266.91	259.40	195.81	7.51
2	Eastern Grid	49.25	56.75	56.30	19.90	0.45
Total	Total	539.37	323.66	315.70	215.71	7.96

Note: Load Summary on June 04, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	227.47	234.04	261.96
2	Eastern Grid	53.42	57.21	61.02
Total	National	280.89	291.25	322.98

NOTE :WLDC LOADS ALL COLLECTED FROM SITE

- 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:
 - 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.
 - The clocks of all the locations are not synchronized
- 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)
27-Dec-18	18:18hrs	399.35MW

Date: June 5, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	69.73	400kV THP - Siliguri Fdr- I	0.00		400kV THP_Siliguri Fdr- I Standby. Unit-III,IV & V standby
		Unit- II	70.53	400kV THP - Siliguri Fdr- II	53.97	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	48.44	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	117.88	+	
		Unit- V	0.00	400kV Malbase - Siliguri	33.48	+	
		Unit- VI	80.30				
		Total	220.56	Error At Station/Auxiliary Consumption/Losses		0.27	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	14.08	+	Unit-I & III Standby
		Unit- II	67.40	220kV CHP - Birpara Fdr- II	14.01	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	72.81	+	
		Unit- IV	69.73	220kV CHP - Semtokha Fdr- IV	23.29	+	
				220kV Malbase - Birpara Fdr.	-32.41	-	
				66kV CHP - Chumdo Fdr.	5.08	+	
				66kV CHP - Gedu Fdr.	6.20	+	
				3x3MVA, 66/11kV TFR	0.76	+	
		Total	137.13	Error At Station/Auxiliary Consumption/Losses		0.90	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	4.32	+	Upper stage unit I Standby Lower stage unit-II standby
		Unit- II	5.62	66kV BHP - Lobeysa Fdr.	9.09	+	
		Total	5.62	220kV BHP - Tsirang Fdr.		3.65	
	BHP (L/S)	Unit- I	11.25	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	11.25	Error At Station/Auxiliary Consumption/Losses		-1.08	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	20.84	+	Unit-I standby.
		Unit-II	21.10	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	21.10	Error At Station/Auxiliary Consumption/Losses		0.26	
5	KHP	Unit- I	16.28	132kV KHP - Nangkhor Fdr- I	61.11	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.64	132kV KHP - Kilikhar Fdr- II	3.76	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.25	132kV Gelephu - Salakati Fdr.	-0.26	-	
				132kV Motanga - Rangia Fdr.	37.06	+	
				220kV Tsirang - Jigmeling	22.00	+	
		Total	65.59	Error At Station/Auxiliary Consumption/Losses		0.32	

Note: Load summary on June 05, 2019 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	395.66	242.09	241.74	131.57	0.35
2	Eastern Grid	65.59	50.79	50.47	36.80	0.32
	Total	461.25	292.88	292.21	168.37	0.67

Note: Load Summary on June 05, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	201.04	227.57	261.96
2	Eastern Grid	45.90	53.17	61.02
	National	246.94	280.74	322.98

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.