

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: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	70.10	400kV THP - Siliguri Fdr- I	87.90	+	400kV THP - Siliguri Fdr- I Standby , Unit III,IV & V standby
		Unit- II	139.06	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	82.76	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	172.84	+	
		Unit- V	0.00	400kV Malbase - Siliguri	63.86	+	
		Unit- VI	139.77				
		Total	348.93	Error At Station/Auxiliary Consumption/Losses	5.43		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	23.85	+	Unit-I & IV Standby
		Unit- II	88.95	220kV CHP - Birpara Fdr- II	23.79	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	68.09	+	
		Unit- IV	91.18	220kV CHP - Semtokha Fdr- IV	47.06	+	
				220kV Malbase - Birpara Fdr.	-13.59	-	
				66kV CHP - Chumdo Fdr.	7.89	+	
				66kV CHP - Gedu Fdr.	6.52	+	
		Total	180.13	Error At Station/Auxiliary Consumption/Losses	2.12		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-11.50	-	Upper stage unit I Standby Lower stage unit-II standby
		Unit- II	5.31	66kV BHP - Lobeysa Fdr.	10.62	+	
		Total	5.31	220kV BHP - Tsirang Fdr.	14.89	+	
	BHP (L/S)	Unit- I	10.75	5MVA, 66/11kV TFR	0.35	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.75	Error At Station/Auxiliary Consumption/Losses	1.70		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.30	+	Unit-I Standby
		Unit-II	17.32	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	17.32	Error At Station/Auxiliary Consumption/Losses	0.02		
5	KHP	Unit- I	16.64	132kV KHP - Nangkhor Fdr- I	39.65	+	Unit -II Standby NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.18	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.48	132kV Gelephu - Salakati Fdr.	-3.11	-	
				132kV Motanga - Rangia Fdr.	27.30	+	
				220kV Tsirang - Jigmeling	31.67	+	
		Total	49.71	Error At Station/Auxiliary Consumption/Losses	0.58		

Note: Load summary on June 05, 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	562.44	262.20	252.93	268.57	9.27
2	Eastern Grid	49.71	57.19	56.61	24.19	0.58
	Total	612.15	319.39	309.54	292.76	9.85

Note: Load Summary on June 05, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	210.18	227.57	261.96
2	Eastern Grid	47.36	53.17	61.02
	National	257.54	280.74	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 6, 2019

Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	90.13	400kV THP - Siliguri Fdr- I	72.53	+	400kV THP_Siliguri Fdr- II Standby. Unit-III,IV & V standby
		Unit- II	98.50	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	68.54	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	142.77	+	
		Unit- V	0.00	400kV Malbase - Siliguri	52.83	+	
		Unit- VI	100.58				
		Total	289.21	Error At Station/Auxiliary Consumption/Losses	5.37		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	24.55	+	Unit-I & III Standby
		Unit- II	68.82	220kV CHP - Birpara Fdr- II	24.56	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	70.80	+	
		Unit- IV	76.12	220kV CHP - Semtokha Fdr- IV	12.92	+	
				220kV Malbase - Birpara Fdr.	-13.36	-	
				66kV CHP - Chumdo Fdr.	4.50	+	
				66kV CHP - Gedu Fdr.	5.83	+	
		Total	144.94	Error At Station/Auxiliary Consumption/Losses	0.88		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	11.60	+	Upper stage unit I Standby Lower stage unit-II standby
		Unit- II	6.83	66kV BHP - Lobeysa Fdr.	9.63	+	
		Total	6.83	220kV BHP - Tsirang Fdr.	-2.29	-	
	BHP (L/S)	Unit- I	12.88	5MVA, 66/11kV TFR	0.78	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
Total	12.88	Error At Station/Auxiliary Consumption/Losses	-0.01				
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	27.62	+	Unit-I standby.
		Unit-II	27.63	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	27.63	Error At Station/Auxiliary Consumption/Losses	0.01		
5	KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	60.99	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.36	132kV KHP - Kilikhar Fdr- II	3.75	+	
		Unit- III	16.38	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.34	132kV Gelephu - Salakati Fdr.	14.33	+	
				132kV Motanga - Rangia Fdr.	31.30	+	
				220kV Tsirang - Jigmeling	23.30	+	
		Total	65.40	Error At Station/Auxiliary Consumption/Losses	0.36		

Note: Load summary on June 06, 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	481.49	228.54	222.29	229.65	6.25
2	Eastern Grid	65.40	43.07	42.71	45.63	0.36
	Total	546.89	271.61	265.00	275.28	6.61

Note: Load Summary on June 06, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	202.56	241.83	261.96
2	Eastern Grid	45.22	55.89	61.02
	National	247.78	297.72	322.98

NOTES:

- 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.