

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 14, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	168.50	400kV THP - Siliguri Fdr- I	118.13	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	117.08	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	170.30	400kV THP - Malbase Fdr- III	177.77	+	
		Unit- V	0.00	400kV Malbase - Siliguri	96.57	+	
		Unit- VI	80.10				
		Total	418.90	Error At Station/Auxiliary Consumption/Losses	5.92		
2	CHP	Unit- I	73.31	220kV CHP - Birpara Fdr- I	44.49	+	Unit-III Standby
		Unit- II	75.02	220kV CHP - Birpara Fdr- II	44.70	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	76.33	+	
		Unit- IV	72.43	220kV CHP - Semtokha Fdr- IV	39.54	+	
				220kV Malbase - Birpara Fdr.	15.23	+	
				66kV CHP - Chumdo Fdr.	5.68	+	
				66kV CHP - Gedu Fdr.	6.99	+	
				3x3MVA, 66/11kV TFR	1.09	+	
		Total	220.76	Error At Station/Auxiliary Consumption/Losses	1.94		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-10.44	-	Upper stage unit I Standby AND Lower stage unit-I standby
		Unit- II	5.80	66kV BHP - Lobeysa Fdr.	10.06	+	
		Total	5.80	220kV BHP - Tsirang Fdr.	16.50	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	11.38	30MVA ICT, 220/66kV			
		Total	11.38	Error At Station/Auxiliary Consumption/Losses	0.36		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.53	+	Unit-I Standby
		Unit-II	17.75	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	17.75	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	16.47	132kV KHP - Nangkhor Fdr- I	58.10	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.53	132kV KHP - Kilikhar Fdr- II	6.80	+	
		Unit- III	16.39	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.31	132kV Gelephu - Salakati Fdr.	-2.80	-	
				132kV Motanga - Rangia Fdr.	37.70	+	
				220kV Tsirang - Jigmeling	32.40	+	
		Total	65.70	Error At Station/Auxiliary Consumption/Losses	0.40		

Note: Load summary on June 14, 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	674.59	205.99	197.55	436.20	8.44
2	Eastern Grid	65.70	63.20	62.80	34.90	0.40
	Total	740.29	269.19	260.35	471.10	8.84

Note: Load Summary on June 14, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	229.04	236.91	261.96
2	Eastern Grid	50.34	52.96	61.02
	National	279.38	289.87	322.98

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)
27-Dec-18	18:18hrs	399.35MW

Date: June 15, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	146.87	400kV THP - Siliguri Fdr- I	89.16	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	88.01	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	90.04	400kV THP - Malbase Fdr- III	143.71	+	
		Unit- V	0.00	400kV Malbase - Siliguri	71.99	+	
		Unit- VI	90.75				
		Total	327.66	Error At Station/Auxiliary Consumption/Losses		6.78	
2	CHP	Unit- I	44.69	220kV CHP - Birpara Fdr- I	22.48	+	Unit- III Standby
		Unit- II	44.68	220kV CHP - Birpara Fdr- II	22.48	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	73.65	+	
		Unit- IV	59.91	220kV CHP - Semtokha Fdr- IV	23.65	+	
				220kV Malbase - Birpara Fdr.	-20.21	-	
				66kV CHP - Chumdo Fdr.	5.10	+	
				66kV CHP - Gedu Fdr.	5.84	+	
		Total	149.28	Error At Station/Auxiliary Consumption/Losses		-4.81	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	4.74	+	Upper stage unit I Standby AND Lower stage unit-I standby
		Unit- II	6.22	66kV BHP - Lobeysa Fdr.	9.46	+	
		Total	6.22	220kV BHP - Tsirang Fdr.		3.03	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.48	+	
		Unit- II	11.75	30MVA ICT, 220/66kV			
		Total	11.75	Error At Station/Auxiliary Consumption/Losses		0.26	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	24.04	+	Unit-I standby.
		Unit-II	24.25	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	24.25	Error At Station/Auxiliary Consumption/Losses		0.21	
5	KHP	Unit- I	16.27	132kV KHP - Nangkhor Fdr- I	61.43	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.69	132kV KHP - Kilikhar Fdr- II	3.42	+	
		Unit- III	16.38	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	0.86	+	
				132kV Motanga - Rangia Fdr.	36.80	+	
				220kV Tsirang - Jigmeling	25.33	+	
		Total	65.84	Error At Station/Auxiliary Consumption/Losses		0.69	

Note: Load summary on June 15, 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	519.16	219.92	217.48	273.91	2.44
2	Eastern Grid	65.84	53.51	52.82	37.66	0.69
Total		585.00	273.43	270.30	311.57	3.13

Note: Load Summary on June 15, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	218.36	240.90	261.96
2	Eastern Grid	35.11	52.81	61.02
National		253.47	293.71	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.
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2. This report is generated to give an idea of the generation & load flow for the system at a particular instant.