

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: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	158.08	400kV THP - Siliguri Fdr- I	119.38	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	119.73	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	160.50	400kV THP - Malbase Fdr- III	194.25	+	
		Unit- V	0.00	400kV Malbase - Siliguri	93.72	+	
		Unit- VI	119.55				
		Total	438.13	Error At Station/Auxiliary Consumption/Losses	4.77		
2	CHP	Unit- I	70.64	220kV CHP - Birpara Fdr- I	39.81	+	Unit-III Standby
		Unit- II	74.37	220kV CHP - Birpara Fdr- II	40.02	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	85.08	+	
		Unit- IV	70.33	220kV CHP - Semtokha Fdr- IV	35.12	+	
				220kV Malbase - Birpara Fdr.	6.26	+	
				66kV CHP - Chumdo Fdr.	5.71	+	
				66kV CHP - Gedu Fdr.	6.95	+	
				3x3MVA, 66/11kV TFR	1.08	+	
		Total	215.34	Error At Station/Auxiliary Consumption/Losses	1.57		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-4.99	-	Upper & Lower stage unit I standby
		Unit- II	6.35	66kV BHP - Lobeysa Fdr.	10.14	+	
		Total	6.35	220kV BHP - Tsirang Fdr.	11.54	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	11.91	30MVA ICT, 220/66kV			
		Total	11.91	Error At Station/Auxiliary Consumption/Losses	1.15		
4	DHPC	Unit-I	28.33	220kV DHPC - Tsirang Fdr.	28.09	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	28.33	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	57.50	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.47	132kV KHP - Kilikhar Fdr- II	7.39	+	
		Unit- III	16.52	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.25	132kV Gelephu - Salakati Fdr.	0.29	-	
				132kV Motanga - Rangia Fdr.	44.01	+	
				220kV Tsirang - Jigmeling	38.32	+	
		Total	65.56	Error At Station/Auxiliary Consumption/Losses	0.27		

Note: Load summary on June 15, 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	700.06	242.82	235.09	418.92	7.73
2	Eastern Grid	65.56	59.58	59.31	44.30	0.27
	Total	765.62	302.40	294.40	463.22	8.00

Note: Load Summary on June 15, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.44	240.90	261.96
2	Eastern Grid	49.69	52.81	61.02
	National	283.13	293.71	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 16, 2019
Hours: 09:00 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	162.73	+	Unit-II,III & V standby 400kV THP_SIL Fdr.IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	161.90	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	180.30	400kV THP - Malbase Fdr- III	193.38	+	
		Unit- V	0.00	400kV Malbase - Siliguri	144.96	+	
		Unit- VI	179.21				
		Total	528.01	Error At Station/Auxiliary Consumption/Losses		10.00	
2	CHP	Unit- I	92.31	220kV CHP - Birpara Fdr- I	80.71	+	
		Unit- II	91.76	220kV CHP - Birpara Fdr- II	80.69	+	
		Unit- III	62.81	220kV CHP - Malbase Fdr- III	154.48	+	
		Unit- IV	91.73	220kV CHP - Semtokha Fdr- IV	8.88	+	
				220kV Malbase - Birpara Fdr.	14.14	-	
				66kV CHP - Chumdo Fdr.	3.53	+	
				66kV CHP - Gedu Fdr.	7.77	+	
				3x3MVA, 66/11kV TFR	0.89	+	
		Total	338.61	Error At Station/Auxiliary Consumption/Losses		1.66	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	16.82	+	Upper stage unit I Standby
		Unit- II	10.95	66kV BHP - Lobeysa Fdr.	10.91	+	
		Total	10.95	220kV BHP - Tsirang Fdr.		7.51	
	BHP (L/S)	Unit- I	12.25	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	13.28	30MVA ICT, 220/66kV			
		Total	25.53	Error At Station/Auxiliary Consumption/Losses		0.82	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	29.89	+	Unit-I standby.
		Unit-II	30.10	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	30.10	Error At Station/Auxiliary Consumption/Losses		0.21	
5	KHP	Unit- I	16.33	132kV KHP - Nangkhor Fdr- I	60.20	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.77	132kV KHP - Kilikhar Fdr- II	4.70	+	
		Unit- III	16.40	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	16.59	132kV Gelephu - Salakati Fdr.	17.80	+	
				132kV Motanga - Rangia Fdr.	40.30	+	
				220kV Tsirang - Jigmeling	36.50	+	
		Total	66.09	Error At Station/Auxiliary Consumption/Losses		0.99	

Note: Load summary on June 16, 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	933.20	251.57	238.88	645.13	12.69
2	Eastern Grid	66.09	44.49	43.50	58.10	0.99
	Total	999.29	296.06	282.38	703.23	13.68

Note: Load Summary on June 16, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	204.05	243.49	261.96
2	Eastern Grid	44.15	46.61	61.02
	National	248.20	290.10	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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