

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 26, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	185.50	400kV THP - Siliguri Fdr- I	265.00	+	
		Unit- II	185.25	400kV THP - Siliguri Fdr- II	264.00	+	
		Unit- III	186.50	400kV THP - Siliguri Fdr- IV	256.00		
		Unit- IV	185.00	400kV THP - Malbase Fdr- III	320.50	+	
		Unit- V	186.00	400kV Malbase - Siliguri	231.00	+	
		Unit- VI	186.78				
		Total	1,115.03	Error At Station/Auxiliary Consumption/Losses	9.53		
2	CHP	Unit- I	91.00	220kV CHP - Birpara Fdr- I	99.00	+	
		Unit- II	91.50	220kV CHP - Birpara Fdr- II	99.00	+	
		Unit- III	92.00	220kV CHP - Malbase Fdr- III	149.60	+	
		Unit- IV	91.89	220kV CHP - Semtokha Fdr- IV	1.10	+	
				220kV Malbase - Birpara Fdr.	52.00	+	
				66kV CHP - Chumdo Fdr.	4.50	+	
				66kV CHP - Gedu Fdr.	6.80	+	
				3x3MVA, 66/11kV TFR	1.11	+	
		Total	366.39	Error At Station/Auxiliary Consumption/Losses	5.28		
3	BHP (U/S)	Unit- I	16.90	220kV BHP - Semtokha Fdr.	38.62	+	
		Unit- II	7.00	66kV BHP - Lobeysa Fdr.	13.60	+	
		Total	23.90	220kV BHP - Tsirang Fdr.	-5.00	-	
	BHP (L/S)	Unit- I	12.60	5MVA, 66/11kV TFR	0.88	+	
		Unit- II	13.60	30MVA ICT, 220/66kV			
		Total	26.20	Error At Station/Auxiliary Consumption/Losses	2.00		
4	DHPC	Unit-I	63.29	220kV DHPC - Tsirang Fdr.	82.02	+	
		Unit-II	19.22	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	82.51	Error At Station/Auxiliary Consumption/Losses	0.49		
5	KHP	Unit- I	16.79	132kV KHP - Nangkhor Fdr- I	63.00	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.57	132kV KHP - Kilikhar Fdr- II	3.35	+	
		Unit- III	16.56	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.00	132kV Gelephu - Salakati Fdr.	31.80	+	
				132kV Motanga - Rangia Fdr.	44.00	+	
				220kV Tsirang - Jigmeling	75.94	+	
		Total	65.92	Error At Station/Auxiliary Consumption/Losses	-1.03		

Note: Load summary on June 26, 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	1,614.03	272.09	254.79	1,266.00	17.30
2	Eastern Grid	65.92	66.06	67.09	75.80	-1.03
	Total	1,679.95	338.15	321.88	1,341.80	16.27

Note: Load Summary on June 26, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	207.15	221.46	261.96
2	Eastern Grid	49.82	49.82	61.02
	National	256.97	271.28	322.98

NOTES: Loads are collected from site

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 27, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	186.30	+	Unit-I Standby
		Unit- II	184.50	400kV THP - Siliguri Fdr- II	187.00	+	
		Unit- III	120.00	400kV THP - Siliguri Fdr- IV	188.40	+	
		Unit- IV	120.00	400kV THP - Malbase Fdr- III	223.13	+	
		Unit- V	184.57	400kV Malbase - Siliguri	181.60	+	
		Unit- VI	185.24				
		Total	794.31	Error At Station/Auxiliary Consumption/Losses	9.48		
2	CHP	Unit- I	92.00	220kV CHP - Birpara Fdr- I	92.00	+	
		Unit- II	92.00	220kV CHP - Birpara Fdr- II	92.00	+	
		Unit- III	92.00	220kV CHP - Malbase Fdr- III	170.00	+	
		Unit- IV	92.00	220kV CHP - Semtokha Fdr- IV	-1.50	+	
				220kV Malbase - Birpara Fdr.	19.80		
				66kV CHP - Chumdo Fdr.	2.50	+	
				66kV CHP - Gedu Fdr.	8.00	+	
				3x3MVA, 66/11kV TFR	0.81	+	
		Total	368.00	Error At Station/Auxiliary Consumption/Losses	4.19		
3	BHP (U/S)	Unit- I	5.70	220kV BHP - Semtokha Fdr.	25.03	+	
		Unit- II	5.80	66kV BHP - Lobeysa Fdr.	11.83	+	
		Total	11.50	220kV BHP - Tsirang Fdr.	-4.00	+	
	BHP (L/S)	Unit- I	10.90	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	12.00	30MVA ICT, 220/66kV			
		Total	22.90	Error At Station/Auxiliary Consumption/Losses	0.65		
4	DHPC	Unit-I	35.32	220kV DHPC - Tsirang Fdr.	51.13	+	
		Unit-II	16.23	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	51.55	Error At Station/Auxiliary Consumption/Losses	0.42		
5	KHP	Unit- I	16.79	132kV KHP - Nangkhor Fdr- I	62.13	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.57	132kV KHP - Kilikhar Fdr- II	3.33	+	
		Unit- III	16.56	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.54	132kV Gelephu - Salakati Fdr.	22.58	+	
				132kV Motanga - Rangia Fdr.	38.78	+	
				220kV Tsirang - Jigmeling	45.19	+	
		Total	66.46	Error At Station/Auxiliary Consumption/Losses	0.40		

Note: Load summary on June 27, 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	1,248.26	255.97	241.23	947.10	14.74
2	Eastern Grid	66.46	50.29	49.89	61.36	0.40
	Total	1,314.72	306.26	291.12	1,008.46	15.14

Note: Load Summary on June 27, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	214.60	244.56	261.96
2	Eastern Grid	35.13	47.30	61.02
	National	249.73	291.86	322.98

NOTES: Western load collected from site.

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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