

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 28, 2019
Hours: 19:00 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	151.00	+	THP Unit-I in spinning mode
		Unit- II	140.00	400kV THP - Siliguri Fdr- II	150.29	+	
		Unit- III	140.90	400kV THP - Siliguri Fdr- IV	153.00	+	
		Unit- IV	100.44	400kV THP - Malbase Fdr- III	212.35	+	
		Unit- V	140.46	400kV Malbase - Siliguri	128.81	+	
		Unit- VI	150.00				
		Total	671.80	Error At Station/Auxiliary Consumption/Losses	5.16		
2	CHP	Unit- I	76.49	220kV CHP - Birpara Fdr- I	79.89	+	220kV Malbase- Birpara Fdr under breakdown
		Unit- II	74.75	220kV CHP - Birpara Fdr- II	79.84	+	
		Unit- III	71.65	220kV CHP - Malbase Fdr- III	93.23	+	
		Unit- IV	74.99	220kV CHP - Semtokha Fdr- IV	29.83	+	
				220kV Malbase - Birpara Fdr.	0.00		
				66kV CHP - Chumdo Fdr.	5.53	+	
				66kV CHP - Gedu Fdr.	7.10	+	
				3x3MVA, 66/11kV TFR	1.27	+	
		Total	297.88	Error At Station/Auxiliary Consumption/Losses	1.19		
3	BHP (U/S)	Unit- I	8.92	220kV BHP - Semtokha Fdr.	-0.05	-	US Unit-II in standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	11.97	+	
		Total	8.92	220kV BHP - Tsirang Fdr.	15.98	+	
	BHP (L/S)	Unit- I	9.45	5MVA, 66/11kV TFR	0.61	+	
		Unit- II	10.63	30MVA ICT, 220/66kV			
		Total	20.08	Error At Station/Auxiliary Consumption/Losses	0.49		
4	DHPC	Unit-I	42.34	220kV DHPC - Tsirang Fdr.	42.13	+	Unit-II standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	42.34	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	16.61	132kV KHP - Nangkhor Fdr- I	59.17	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.74	132kV KHP - Kilikhar Fdr- II	6.58	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.58	132kV Gelephu - Salakati Fdr.	21.13	+	
				132kV Motanga - Rangia Fdr.	62.24	+	
				220kV Tsirang - Jigmeling	55.59	+	
		Total	66.54	Error At Station/Auxiliary Consumption/Losses	0.19		

Note: Load summary on June 28, 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	1,041.02	242.60	235.55	742.83	7.05
2	Eastern Grid	66.54	38.76	38.57	83.37	0.19
	Total	1,107.56	281.36	274.12	826.20	7.24

Note: Load Summary on June 28, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.03	228.05	261.96
2	Eastern Grid	44.54	47.83	61.02
	National	255.57	275.88	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.

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 28, 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	126.00	+	Unit-I Spinning mode, Unit-II shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	123.82	+	
		Unit- III	100.38	400kV THP - Siliguri Fdr- IV	121.34	+	
		Unit- IV	150.48	400kV THP - Malbase Fdr- III	169.49	+	
		Unit- V	149.67	400kV Malbase - Siliguri	108.67	+	
		Unit- VI	149.10				
		Total	549.63	Error At Station/Auxiliary Consumption/Losses	8.98		
2	CHP	Unit- I	68.88	220kV CHP - Birpara Fdr- I	66.02	+	220kV Malbase- Birpara Fdr under breakdown
		Unit- II	70.52	220kV CHP - Birpara Fdr- II	66.07	+	
		Unit- III	51.55	220kV CHP - Malbase Fdr- III	115.03	+	
		Unit- IV	75.40	220kV CHP - Semtokha Fdr- IV	7.50	+	
				220kV Malbase - Birpara Fdr.	0.00		
				66kV CHP - Chumdo Fdr.	2.86	+	
				66kV CHP - Gedu Fdr.	7.65	+	
				3x3MVA, 66/11kV TFR	0.72	+	
		Total	266.35	Error At Station/Auxiliary Consumption/Losses	0.50		
3	BHP (U/S)	Unit- I	8.85	220kV BHP - Semtokha Fdr.	16.66	+	US Unit-II standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.33	+	
		Total	8.85	220kV BHP - Tsirang Fdr.	-0.42	-	
	BHP (L/S)	Unit- I	8.55	5MVA, 66/11kV TFR	0.49	+	
		Unit- II	9.86	30MVA ICT, 220/66kV			
		Total	18.41	Error At Station/Auxiliary Consumption/Losses	0.20		
4	DHPC	Unit-I	34.29	220kV DHPC - Tsirang Fdr.	34.09	+	Unit-II standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	34.29	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	16.37	132kV KHP - Nangkhor Fdr- I	61.03	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.66	132kV KHP - Kilikhar Fdr- II	4.07	+	
		Unit- III	16.39	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.23	132kV Gelephu - Salakati Fdr.	19.28	+	
				132kV Motanga - Rangia Fdr.	41.26	+	
				220kV Tsirang - Jigmeling	32.77	+	
		Total	65.65	Error At Station/Auxiliary Consumption/Losses	0.15		

Note: Load summary on June 28, 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	877.53	232.84	222.96	611.92	9.88
2	Eastern Grid	65.65	37.88	37.73	60.54	0.15
	Total	943.18	270.72	260.69	672.46	10.03

Note: Load Summary on June 28, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	220.16	230.28	261.96
2	Eastern Grid	33.18	46.92	61.02
	National	253.34	277.20	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:
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