

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 10, 2019
Hours: 19:00 Hours

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	1020MW THP	Unit- I	187.81	400kV THP - Siliguri Fdr- I	240.03	+	
		Unit- II	187.49	400kV THP - Siliguri Fdr- II	239.84	+	
		Unit- III	188.07	400kV THP - Siliguri Fdr- IV	239.62	+	
		Unit- IV	183.56	400kV THP - Malbase Fdr- III	313.27	+	
		Unit- V	108.85	400kV Malbase - Siliguri	207.64	+	
		Unit- VI	186.35	-	-	-	
		Total	1,042.13	Error at Station/Auxiliary Consumption/Losses	9.37		
2	720MW MHP	Unit-I	188.00	400kV MHP - Jigmeling Fdr - I	45.00	+	Unit IV synchronized at 18:26 Hrs for load throw off test.
		Unit-II	181.00	400kV MHP - Jigmeling Fdr - II	368.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	45.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	414.00	Error at Station/Auxiliary Consumption/Losses	1.00		
2	336MW CHP	Unit- I	90.30	220kV CHP - Birpara Fdr- I	87.90	+	Unit IV under shutdown
		Unit- II	90.05	220kV CHP - Birpara Fdr- II	87.44	+	
		Unit- III	91.83	220kV CHP - Malbase Fdr- III	113.62	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-27.75	-	
		-	-	220kV Malbase - Birpara Fdr.	56.18	+	
		-	-	66kV CHP - Chumdo Fdr.	1.93	-	
		-	-	66kV CHP - Gedu Fdr.	5.73	+	
		-	-	3x3MVA, 66/11kV TFR	1.13	+	
Total	272.18	Error at Station/Auxiliary Consumption/Losses	2.18				
3	24MW BHP (U/S)	Unit- I	12.30	220kV BHP - Semtokha Fdr.	56.98	+	
		Unit- II	12.20	66kV BHP - Lobeyasa Fdr.	18.50	+	
		Total	24.50	220kV BHP - Tsirang Fdr.	-9.50	-	
	40MW BHP (L/S)	Unit- I	20.10	5MVA, 66/11kV TFR	0.80	+	
		Unit- II	20.70	30MVA ICT, 220/66kV			
Total	40.80	Error at Station/Auxiliary Consumption/Losses	1.48				
4	126MW DHPC	Unit-I	49.39	220kV DHPC - Tsirang Fdr.	98.10	+	
		Unit-II	49.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	98.53	Error at Station/Auxiliary Consumption/Losses	0.43		
5	60MW KHP	Unit- I	16.48	132kV KHP - Nangkor Fdr- I	56.40	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	8.51	+	
		Unit- III	16.47	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.48	132kV Gelephu - Salakati Fdr.	22.16	+	
		-	-	132kV Motanga - Rangia Fdr.	56.49	+	
		-	-	220kV Tsirang - Jigmeling	84.21	+	
		Total	65.93	Error at Station/Auxiliary Consumption/Losses	0.52		

Note: Load summary on August 10, 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	1,478.14	235.28	224.78	1,158.65	10.50
2	Eastern Grid	479.93	72.49	70.97	491.65	1.52
	Total	1,958.07	307.77	295.75	1,650.30	12.02

Note: Load Summary on August 10, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	245.53	246.59	259.44
2	Eastern Grid	53.08	53.08	55.98
	National	298.61	299.67	315.42

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.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	August 11, 2019
Hours:	09:00 Hours

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

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	1020MW THP	Unit- I	187.85	400kV THP - Siliguri Fdr- I	217.82	+	Unit V Under Shutdown
		Unit- II	185.20	400kV THP - Siliguri Fdr- II	216.52	+	
		Unit- III	186.83	400kV THP - Siliguri Fdr- IV	217.29	+	
		Unit- IV	186.91	400kV THP - Malbase Fdr- III	269.37	+	
		Unit- V	0.00	400kV Malbase - Siliguri	192.94	+	
		Unit- VI	186.01	-	-	-	
		Total	932.80	Error at Station/Auxiliary Consumption/Losses	11.80		
2	720MW MHP	Unit-I	187.22	400kV MHP - Jigmeling Fdr - I	187.30	+	
		Unit-II	187.00	400kV MHP - Jigmeling Fdr - II	183.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	374.22	Error at Station/Auxiliary Consumption/Losses	3.42		
3	336MW CHP	Unit- I	91.43	220kV CHP - Birpara Fdr- I	92.36	+	Unit IV under shutdown.
		Unit- II	91.02	220kV CHP - Birpara Fdr- II	92.45	+	
		Unit- III	91.27	220kV CHP - Malbase Fdr- III	135.82	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-54.31	-	
		-	-	220kV Malbase - Birpara Fdr.	47.23	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.54	-	
		-	-	66kV CHP - Gedu Fdr.	5.99	+	
		-	-	3x3MVA, 66/11kV TFR	0.96	+	
Total	273.72	Error at Station/Auxiliary Consumption/Losses	0.99				
4	24MW BHP (U/S)	Unit- I	11.79	220kV BHP - Semtokha Fdr.	76.42	+	
		Unit- II	11.79	66kV BHP - Lobeyasa Fdr.	16.57	+	
		Total	23.58	220kV BHP - Tsirang Fdr.	-28.60	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	20.33	30MVA ICT, 220/66kV			
Total	40.63	Error at Station/Auxiliary Consumption/Losses	-0.57				
5	126MW DHPC	Unit-I	56.20	220kV DHPC - Tsirang Fdr.	112.77	+	
		Unit-II	57.08	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	113.28	Error at Station/Auxiliary Consumption/Losses	0.51		
6	60MW KHP	Unit- I	16.57	132kV KHP - Nangkhor Fdr- I	62.37	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.55	132kV KHP - Kilikhar Fdr- II	3.57	+	
		Unit- III	16.69	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.57	132kV Gelephu - Salakati Fdr.	44.91	+	
		-	-	132kV Motanga - Rangia Fdr.	52.31	+	
		-	-	220kV Tsirang - Jigmeling	80.67	+	
		Total	66.38	Error at Station/Auxiliary Consumption/Losses	-0.06		

Note: Load summary on August 11, 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	1,384.01	226.73	214.00	1,076.61	12.73
2	Eastern Grid	440.60	53.25	49.89	468.02	3.36
	Total	1,824.61	279.98	263.89	1,544.63	16.09

Note: Load Summary on August 11, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	229.13	247.05	259.44
2	Eastern Grid	36.33	52.93	55.98
	National	265.46	299.98	315.42

NOTES:

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