

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 11, 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	186.62	400kV THP - Siliguri Fdr- I	213.78	+	Unit V under shutdown
		Unit- II	186.87	400kV THP - Siliguri Fdr- II	212.62	+	
		Unit- III	187.10	400kV THP - Siliguri Fdr- IV	205.61	+	
		Unit- IV	186.74	400kV THP - Malbase Fdr- III	285.89	+	
		Unit- V	0.00	400kV Malbase - Siliguri	183.06	+	
		Unit- VI	185.98	-	-	-	
		Total	933.31	Error at Station/Auxiliary Consumption/Losses	15.41		
2	720MW MHP	Unit-I	187.00	400kV MHP - Jigmeling Fdr - I	371.00	+	
		Unit-II	184.10	400kV MHP - Jigmeling Fdr - II	0.00	+	
		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	0.00		
		-	-	(Local Load)	0.00		
		Total	371.10	Error at Station/Auxiliary Consumption/Losses	0.10		
2	336MW CHP	Unit- I	91.62	220kV CHP - Birpara Fdr- I	88.63	+	Unit IV under shutdown
		Unit- II	91.91	220kV CHP - Birpara Fdr- II	89.02	+	
		Unit- III	91.51	220kV CHP - Malbase Fdr- III	113.60	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-25.43	-	
		-	-	220kV Malbase - Birpara Fdr.	58.50	+	
		-	-	66kV CHP - Chumdo Fdr.	2.21	-	
		-	-	66kV CHP - Gedu Fdr.	5.08	+	
		-	-	3x3MVA, 66/11kV TFR	1.39	+	
Total	275.04	Error at Station/Auxiliary Consumption/Losses	0.54				
3	24MW BHP (U/S)	Unit- I	12.20	220kV BHP - Semtokha Fdr.	58.82	+	
		Unit- II	11.90	66kV BHP - Lobeyasa Fdr.	16.81	+	
		Total	24.10	220kV BHP - Tsirang Fdr.	-11.43	-	
	40MW BHP (L/S)	Unit- I	19.70	5MVA, 66/11kV TFR	0.97	+	
		Unit- II	20.20	30MVA ICT, 220/66kV			
Total	39.90	Error at Station/Auxiliary Consumption/Losses	1.17				
4	126MW DHPC	Unit-I	52.34	220kV DHPC - Tsirang Fdr.	103.98	+	
		Unit-II	52.13	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	104.47	Error at Station/Auxiliary Consumption/Losses	0.49		
5	60MW KHP	Unit- I	16.50	132kV KHP - Nangkor Fdr- I	57.11	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	8.16	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	34.81	+	
		-	-	132kV Motanga - Rangia Fdr.	48.72	+	
		-	-	220kV Tsirang - Jigmeling	89.59	+	
		Total	66.00	Error at Station/Auxiliary Consumption/Losses	0.33		

Note: Load summary on August 11, 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	1,376.82	236.01	220.74	1,051.22	15.27
2	Eastern Grid	437.10	72.16	71.73	454.53	0.43
	Total	1,813.92	308.17	292.47	1,505.75	15.70

Note: Load Summary on August 11, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	247.05	247.05	259.44
2	Eastern Grid	52.93	52.93	55.98
	National	299.98	299.98	315.42

NOTES: Eastern 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:

- 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.

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:	August 12, 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	186.83	400kV THP - Siliguri Fdr- I	332.70	+	400kV Malbase-Siliguri Fdr under shutdown
		Unit- II	187.66	400kV THP - Siliguri Fdr- II	329.23	+	
		Unit- III	187.40	400kV THP - Siliguri Fdr- IV	322.30	+	
		Unit- IV	186.65	400kV THP - Malbase Fdr- III	118.05	+	
		Unit- V	185.89	400kV Malbase - Siliguri	0.00	+	
		Unit- VI	186.80	-	-	-	
		Total	1,121.23	Error at Station/Auxiliary Consumption/Losses	18.95		
2	720MW MHP	Unit-I	187.22	400kV MHP - Jigmeling Fdr - I	370.00	+	400kVMHP-Jigmeling Fdr III & IV under shutdown
		Unit-II	183.24	400kV MHP - Jigmeling Fdr - II	0.00	+	
		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	370.46	Error at Station/Auxiliary Consumption/Losses	0.46		
3	336MW CHP	Unit- I	93.62	220kV CHP - Birpara Fdr- I	93.38	+	Unit IV under shutdown.
		Unit- II	91.06	220kV CHP - Birpara Fdr- II	93.05	+	
		Unit- III	91.41	220kV CHP - Malbase Fdr- III	123.32	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-40.70	-	
		-	-	220kV Malbase - Birpara Fdr.	57.73	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.95	-	
		-	-	66kV CHP - Gedu Fdr.	6.64	+	
		-	-	3x3MVA, 66/11kV TFR	0.67	+	
Total	276.09	Error at Station/Auxiliary Consumption/Losses	0.68				
4	24MW BHP (U/S)	Unit- I	11.17	220kV BHP - Semtokha Fdr.	59.70	+	
		Unit- II	11.17	66kV BHP - Lobeyasa Fdr.	15.58	+	
		Total	22.34	220kV BHP - Tsirang Fdr.	-15.45	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	19.19	30MVA ICT, 220/66kV			
		Total	39.49	Error at Station/Auxiliary Consumption/Losses	1.62		
5	126MW DHPC	Unit-I	47.15	220kV DHPC - Tsirang Fdr.	96.06	+	
		Unit-II	49.24	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	96.39	Error at Station/Auxiliary Consumption/Losses	0.33		
6	60MW KHP	Unit- I	16.56	132kV KHP - Nangkhor Fdr- I	60.60	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	4.02	+	
		Unit- III	16.57	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.29	132kV Gelephu - Salakati Fdr.	38.55	+	
		-	-	132kV Motanga - Rangia Fdr.	49.23	+	
		-	-	220kV Tsirang - Jigmeling	76.68	+	
		Total	65.92	Error at Station/Auxiliary Consumption/Losses	0.80		

Note: Load summary on August 12, 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	1,555.54	250.47	228.89	1,228.39	21.58
2	Eastern Grid	436.38	55.28	54.02	457.78	1.26
	Total	1,991.92	305.75	282.91	1,686.17	22.84

Note: Load Summary on August 12, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	221.79	250.30	259.44
2	Eastern Grid	40.39	49.29	55.98
	National	262.18	299.59	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.
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