

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	August 9, 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	188.25	400kV THP - Siliguri Fdr- I	258.90	+	
		Unit- II	186.40	400kV THP - Siliguri Fdr- II	257.30	+	
		Unit- III	186.20	400kV THP - Siliguri Fdr- IV	250.30	+	
		Unit- IV	185.20	400kV THP - Malbase Fdr- III	341.85	+	
		Unit- V	187.05	400kV Malbase - Siliguri	221.15	+	
		Unit- VI	186.10	-	-	-	
		Total	1,119.20	Error at Station/Auxiliary Consumption/Losses	10.85		
2	720MW MHP	Unit-I	186.70	400kV MHP - Jigmeling Fdr - I	185.60	+	
		Unit-II	185.00	400kV MHP - Jigmeling Fdr - II	185.00	+	
		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	371.70	Error at Station/Auxiliary Consumption/Losses	1.10		
2	336MW CHP	Unit- I	91.44	220kV CHP - Birpara Fdr- I	90.66	+	Unit IV under shutdown
		Unit- II	90.05	220kV CHP - Birpara Fdr- II	90.37	+	
		Unit- III	91.72	220kV CHP - Malbase Fdr- III	121.74	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-30.93	-	
		-	-	220kV Malbase - Birpara Fdr.	60.87	+	
		-	-	66kV CHP - Chumdo Fdr.	-2.98	-	
		-	-	66kV CHP - Gedu Fdr.	1.95	+	
		-	-	3x3MVA, 66/11kV TFR	1.06	+	
Total	273.21	Error at Station/Auxiliary Consumption/Losses	1.34				
3	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	62.54	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	18.60	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-17.54	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.91	+	
		Unit- II	20.44	30MVA ICT, 220/66kV			
Total	40.74	Error at Station/Auxiliary Consumption/Losses	0.17				
4	126MW DHPC	Unit-I	58.10	220kV DHPC - Tsirang Fdr.	115.64	+	
		Unit-II	58.13	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	116.23	Error at Station/Auxiliary Consumption/Losses	0.59		
5	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	56.03	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	7.10	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	40.50	+	
		-	-	132kV Motanga - Rangia Fdr.	52.60	+	
		-	-	220kV Tsirang - Jigmeling	94.66	+	
		Total	66.00	Error at Station/Auxiliary Consumption/Losses	2.37		

Note: Load summary on August 09, 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	1,572.98	248.77	236.16	1,229.55	12.61
2	Eastern Grid	437.70	68.66	65.19	463.70	3.47
	Total	2,010.68	317.43	301.35	1,693.25	16.08

Note: Load Summary on August 09, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	238.27	238.91	259.44
2	Eastern Grid	52.97	52.97	55.98
	National	291.24	291.88	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:

- 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: August 10, 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	187.70	400kV THP - Siliguri Fdr- I	268.90	+	
		Unit- II	186.53	400kV THP - Siliguri Fdr- II	265.70	+	
		Unit- III	187.17	400kV THP - Siliguri Fdr- IV	257.10	+	
		Unit- IV	187.55	400kV THP - Malbase Fdr- III	324.10	+	
		Unit- V	187.47	400kV Malbase - Siliguri	236.19	+	
		Unit- VI	185.93	-	-	-	
		Total	1,122.35	Error at Station/Auxiliary Consumption/Losses	6.55		
2	720MW MHP	Unit-I	187.22	400kV MHP - Jigmeling Fdr - I	187.30	+	
		Unit-II	183.83	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	371.05	Error at Station/Auxiliary Consumption/Losses	0.25		
3	336MW CHP	Unit- I	91.74	220kV CHP - Birpara Fdr- I	91.58	+	Unit IV under shutdown.
		Unit- II	91.61	220kV CHP - Birpara Fdr- II	91.33	+	
		Unit- III	91.48	220kV CHP - Malbase Fdr- III	141.47	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-49.49	-	
		-	-	220kV Malbase - Birpara Fdr.	48.75	+	
		-	-	66kV CHP - Chumdo Fdr.	-4.12	-	
		-	-	66kV CHP - Gedu Fdr.	3.35	+	
		Total	274.83	Error at Station/Auxiliary Consumption/Losses	-0.05		
4	24MW BHP (U/S)	Unit- I	12.20	220kV BHP - Semtokha Fdr.	73.45	+	
		Unit- II	12.40	66kV BHP - Lobeyasa Fdr.	16.77	+	
		Total	24.60	220kV BHP - Tsirang Fdr.	-25.99	-	
	40MW BHP (L/S)	Unit- I	20.40	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	20.10	30MVA ICT, 220/66kV			
		Total	40.50	Error at Station/Auxiliary Consumption/Losses	0.47		
5	126MW DHPC	Unit-I	53.91	220kV DHPC - Tsirang Fdr.	107.10	+	
		Unit-II	53.68	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	107.59	Error at Station/Auxiliary Consumption/Losses	0.49		
6	60MW KHP	Unit- I	16.75	132kV KHP - Nangkhon Fdr- I	62.63	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.59	132kV KHP - Kilikhar Fdr- II	3.64	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.80	132kV Gelephu - Salakati Fdr.	36.54	+	
		-	-	132kV Motanga - Rangia Fdr.	55.17	+	
		-	-	220kV Tsirang - Jigmeling	78.02	+	
		Total	66.75	Error at Station/Auxiliary Consumption/Losses	-0.02		

Note: Load summary on August 10, 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	1,569.87	232.30	224.84	1,259.55	7.46
2	Eastern Grid	437.80	53.31	53.08	462.51	0.23
Total		2,007.67	285.61	277.92	1,722.06	7.69

Note: Load Summary on August 10, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	214.30	246.59	259.44
2	Eastern Grid	42.74	53.08	55.98
	National	257.04	299.67	315.42

NOTES: Eastern load collected from site

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