

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 27, 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	188.32	400kV THP - Siliguri Fdr- I	263.39	+	
		Unit- II	185.73	400kV THP - Siliguri Fdr- II	261.50	+	
		Unit- III	188.13	400kV THP - Siliguri Fdr- IV	254.19	+	
		Unit- IV	187.01	400kV THP - Malbase Fdr- III	327.41	+	
		Unit- V	186.64	400kV Malbase - Siliguri	232.54	+	
		Unit- VI	186.71	-	-	-	
		Total	1,122.54	Error at Station/Auxiliary Consumption/Losses	16.05		
2	720MW MHP	Unit-I	18.87	400kV MHP - Jigmeling Fdr - I	206.00	+	400kV MHP-JLG II Idle charged till MHEP end
		Unit-II	187.16	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III		400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV		400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	206.03	Error at Station/Auxiliary Consumption/Losses	0.03		
2	336MW CHP	Unit- I	91.79	220kV CHP - Birpara Fdr- I	119.06	+	
		Unit- II	91.32	220kV CHP - Birpara Fdr- II	119.04	+	
		Unit- III	92.27	220kV CHP - Malbase Fdr- III	158.56	+	
		Unit- IV	91.75	220kV CHP - Semtokha Fdr- IV	-42.88	-	
		-	-	220kV Malbase - Birpara Fdr.	73.53	+	
		-	-	66kV CHP - Chumdo Fdr.	2.59	+	
		-	-	66kV CHP - Gedu Fdr.	8.63	+	
		-	-	3x3MVA, 66/11kV TFR	1.14	+	
Total	367.13	Error at Station/Auxiliary Consumption/Losses	0.99				
3	24MW BHP (U/S)	Unit- I	11.84	220kV BHP - Semtokha Fdr.	70.83	+	
		Unit- II	11.84	66kV BHP - Lobeyasa Fdr.	18.69	+	
		Total	23.68	220kV BHP - Tsirang Fdr.	-24.07	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.60	+	
		Unit- II	20.78	30MVA ICT, 220/66kV			
Total	41.32	Error at Station/Auxiliary Consumption/Losses	1.05				
4	126MW DHPC	Unit-I	63.51	220kV DHPC - Tsirang Fdr.	126.08	+	
		Unit-II	63.10	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.61	Error at Station/Auxiliary Consumption/Losses	0.53		
5	60MW KHP	Unit- I	16.40	132kV KHP - Nangkor Fdr- I	62.06	+	Motanga Substation is bypassed through ERS tower
		Unit-II	15.67	132kV KHP - Kilikhar Fdr- II	7.88	+	
		Unit- III	15.05	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	15.20	132kV Gelephu - Salakati Fdr.	50.80	+	
		-	-	132kV Motanga - Rangia Fdr.	52.72	+	
		-	-	220kV Tsirang - Jigmeling	98.30	+	
		Total	62.32	Error at Station/Auxiliary Consumption/Losses	-8.12		

Note: Load summary on July 27, 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	1,681.28	259.73	243.21	1,323.25	16.52
2	Eastern Grid	268.35	57.13	65.22	309.52	-8.09
	Total	1,949.63	316.86	308.43	1,632.77	8.43

Note: Load Summary on July 27, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	258.07	265.10	280.97
2	Eastern Grid	53.24	53.24	57.66
	National	311.31	318.34	338.63

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:	July 28, 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	186.97	400kV THP - Siliguri Fdr- I	266.81	+	
		Unit- II	188.51	400kV THP - Siliguri Fdr- II	264.48	+	
		Unit- III	187.70	400kV THP - Siliguri Fdr- IV	257.50	+	
		Unit- IV	187.37	400kV THP - Malbase Fdr- III	316.45	+	
		Unit- V	187.18	400kV Malbase - Siliguri	238.33	+	
		Unit- VI	186.36	-	-	-	
		Total	1,124.09	Error at Station/Auxiliary Consumption/Losses	18.85		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00	+	MHP unit I & II tripped at 04:09hrs along with 440kV MHP_JLG line I.
		Unit-II	0.00	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	0.00	Error at Station/Auxiliary Consumption/Losses	0.00		
3	336MW CHP	Unit- I	91.39	220kV CHP - Birpara Fdr- I	122.23	+	
		Unit- II	90.14	220kV CHP - Birpara Fdr- II	121.72	+	
		Unit- III	90.83	220kV CHP - Malbase Fdr- III	173.44	+	
		Unit- IV	91.13	220kV CHP - Semtokha Fdr- IV	-61.46	-	
		-	-	220kV Malbase - Birpara Fdr.	66.50	+	
		-	-	66kV CHP - Chumdo Fdr.	0.28	+	
		-	-	66kV CHP - Gedu Fdr.	8.37	+	
		Total	363.49	Error at Station/Auxiliary Consumption/Losses	-1.93		
4	24MW BHP (U/S)	Unit- I	11.85	220kV BHP - Semtokha Fdr.	83.36	+	
		Unit- II	11.85	66kV BHP - Lobeyasa Fdr.	16.11	+	
		Total	23.70	220kV BHP - Tsirang Fdr.	-34.18	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.97	+	
		Unit- II	20.56	30MVA ICT, 220/66kV			
		Total	41.10	Error at Station/Auxiliary Consumption/Losses	-1.46		
5	126MW DHPC	Unit-I	63.55	220kV DHPC - Tsirang Fdr.	126.33	+	
		Unit-II	63.35	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.90	Error at Station/Auxiliary Consumption/Losses	0.57		
6	60MW KHP	Unit- I	16.50	132kV KHP - Nangkor Fdr- I	61.30	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	3.55	+	
		Unit- III	16.20	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	57.13	+	
		-	-	132kV Motanga - Rangia Fdr.	44.11	+	
		-	-	220kV Tsirang - Jigmeling	88.64	+	
		Total	65.70	Error at Station/Auxiliary Consumption/Losses	0.35		

Note: Load summary on July 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	1,679.28	253.07	237.04	1,337.57	16.03
2	Eastern Grid	65.70	53.10	52.75	101.24	0.35
	Total	1,744.98	306.17	289.79	1,438.81	16.38

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.15	235.15	280.97
2	Eastern Grid	43.17	47.27	57.66
	National	278.32	282.42	338.63

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.
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