

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 13, 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	187.65	400kV THP - Siliguri Fdr- I	258.96	+	
		Unit- II	186.65	400kV THP - Siliguri Fdr- II	257.46	+	
		Unit- III	186.89	400kV THP - Siliguri Fdr- IV	246.01	+	
		Unit- IV	187.13	400kV THP - Malbase Fdr- III	350.01	+	
		Unit- V	187.38	400kV Malbase - Siliguri	218.96	+	
		Unit- VI	187.11	-	-	-	
		Total	1,122.81	Error at Station/Auxiliary Consumption/Losses	10.37		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	191.80	+	Unit-III under shutdown. Unit I under break down
		Unit-II	189.21	400kV MHP - Jigmeling Fdr - II	188.60	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	191.80	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	381.01	Error at Station/Auxiliary Consumption/Losses	0.61		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	97.75	+	Unit-I under breakdown..
		Unit- II	91.45	220kV CHP - Birpara Fdr- II	97.46	+	
		Unit- III	92.09	220kV CHP - Malbase Fdr- III	118.97	+	
		Unit- IV	92.23	220kV CHP - Semtokha Fdr- IV	-53.35	-	
		-	-	220kV Malbase - Birpara Fdr.	69.21	+	
		-	-	66kV CHP - Chumdo Fdr.	3.67	+	
		-	-	66kV CHP - Gedu Fdr.	8.80	+	
		Total	275.77	Error at Station/Auxiliary Consumption/Losses	1.30		
3	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	88.00	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	21.12	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-44.04	-	
	40MW BHP (L/S)	Unit- I	21.05	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	20.19	30MVA ICT, 220/66kV			
Total	41.24	Error at Station/Auxiliary Consumption/Losses	0.82				
4	126MW DHPC	Unit-I	63.55	220kV DHPC - Tsirang Fdr.	126.18	+	
		Unit-II	63.24	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.79	Error at Station/Auxiliary Consumption/Losses	0.61		
5	60MW KHP	Unit- I	16.46	132kV KHP - Nangkor Fdr- I	56.71	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.47	132kV KHP - Kilikhar Fdr- II	8.62	+	
		Unit- III	16.64	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	67.82	+	
		-	-	132kV Motanga - Rangia Fdr.	13.00	+	
		-	-	220kV Tsirang - Jigmeling	76.80	+	
		Total	66.09	Error at Station/Auxiliary Consumption/Losses	0.16		

Note: Load summary on September 13, 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	1,590.25	267.64	256.18	1,245.81	11.46
2	Eastern Grid	447.10	62.68	61.91	461.22	0.77
	Total	2,037.35	330.32	318.09	1,707.03	12.23

Note: Load Summary on September 13, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	250.72	250.72	256.15
2	Eastern Grid	40.30	43.16	57.74
	National	291.02	293.88	313.89

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:	September 14, 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	187.63	400kV THP - Siliguri Fdr- I	268.91	+	
		Unit- II	185.96	400kV THP - Siliguri Fdr- II	264.28	+	
		Unit- III	186.73	400kV THP - Siliguri Fdr- IV	259.76	+	
		Unit- IV	187.33	400kV THP - Malbase Fdr- III	316.65	+	
		Unit- V	187.68	400kV Malbase - Siliguri	237.44	+	
		Unit- VI	186.52	-	-	-	
		Total	1,121.85	Error at Station/Auxiliary Consumption/Losses	12.25		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	192.89	+	Unit-III under shutdown. Unit I under break down
		Unit-II	189.30	400kV MHP - Jigmeling Fdr - II	188.13	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	191.60	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	380.90	Error at Station/Auxiliary Consumption/Losses	-0.12		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	97.24	+	Unit-I under breakdown.
		Unit- II	91.37	220kV CHP - Birpara Fdr- II	97.41	+	
		Unit- III	91.83	220kV CHP - Malbase Fdr- III	148.13	+	
		Unit- IV	91.57	220kV CHP - Semtokha Fdr- IV	-78.85	-	
		-	-	220kV Malbase - Birpara Fdr.	45.86	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.22	+	
		-	-	66kV CHP - Gedu Fdr.	8.79	+	
		Total	274.77	Error at Station/Auxiliary Consumption/Losses	1.49		
4	24MW BHP (U/S)	Unit- I	11.70	220kV BHP - Semtokha Fdr.	100.96	+	
		Unit- II	11.70	66kV BHP - Lobeyasa Fdr.	18.07	+	
		Total	23.40	220kV BHP - Tsirang Fdr.	-53.33	-	
	40MW BHP (L/S)	Unit- I	21.00	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	20.00	30MVA ICT, 220/66kV			
		Total	41.00	Error at Station/Auxiliary Consumption/Losses	-1.73		
5	126MW DHPC	Unit-I	63.43	220kV DHPC - Tsirang Fdr.	126.16	+	
		Unit-II	63.26	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.69	Error at Station/Auxiliary Consumption/Losses	0.53		
6	60MW KHP	Unit- I	16.47	132kV KHP - Nangkhor Fdr- I	61.35	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.40	132kV KHP - Kilikhar Fdr- II	3.84	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.45	132kV Gelephu - Salakati Fdr.	63.09	+	
		-	-	132kV Motanga - Rangia Fdr.	20.80	+	
		-	-	220kV Tsirang - Jigmeling	68.96	+	
		Total	65.91	Error at Station/Auxiliary Consumption/Losses	0.42		

Note: Load summary on September 14, 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	1,587.71	247.85	235.31	1,270.90	12.54
2	Eastern Grid	446.81	50.86	50.56	464.91	0.30
	Total	2,034.52	298.71	285.87	1,735.81	12.84

Note: Load Summary on September 14, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	216.57	254.93	256.15
2	Eastern Grid	29.63	43.20	57.74
	National	246.20	298.13	313.89

NOTES:

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