

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: September 8, 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	187.52	400kV THP - Siliguri Fdr- I	255.42	+	
		Unit- II	187.80	400kV THP - Siliguri Fdr- II	254.80	+	
		Unit- III	188.47	400kV THP - Siliguri Fdr- IV	254.28	+	
		Unit- IV	186.15	400kV THP - Malbase Fdr- III	347.54	+	
		Unit- V	187.22	400kV Malbase - Siliguri	219.88	+	
		Unit- VI	186.62	-	-	-	
		Total	1,123.78	Error at Station/Auxiliary Consumption/Losses	11.74		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	191.40	+	Unit-III under shutdown. Unit I under break down
		Unit-II	186.00	400kV MHP - Jigmeling Fdr - II	186.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.30	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	378.30	Error at Station/Auxiliary Consumption/Losses	0.80		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	83.73	+	Unit-I under breakdown..
		Unit- II	91.12	220kV CHP - Birpara Fdr- II	83.27	+	
		Unit- III	91.69	220kV CHP - Malbase Fdr- III	102.74	+	
		Unit- IV	91.57	220kV CHP - Semtokha Fdr- IV	-10.14	-	
		-	-	220kV Malbase - Birpara Fdr.	58.70	+	
		-	-	66kV CHP - Chumdo Fdr.	5.71	+	
		-	-	66kV CHP - Gedu Fdr.	6.87	+	
		-	-	3x3MVA, 66/11kV TFR	1.36	+	
Total	274.38	Error at Station/Auxiliary Consumption/Losses	0.84				
3	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	43.20	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	18.22	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	2.62	-	
	40MW BHP (L/S)	Unit- I	20.96	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	20.19	30MVA ICT, 220/66kV			
Total	41.15	Error at Station/Auxiliary Consumption/Losses	0.01				
4	126MW DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	74.97	+	
		Unit-II	45.15	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	75.44	Error at Station/Auxiliary Consumption/Losses	0.47		
5	60MW KHP	Unit- I	16.49	132kV KHP - Nangkor Fdr- I	58.12	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.39	132kV KHP - Kilikhar Fdr- II	6.88	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.29	132kV Gelephu - Salakati Fdr.	33.47	+	
		-	-	132kV Motanga - Rangia Fdr.	40.70	+	
		-	-	220kV Tsirang - Jigmeling	73.57	+	
		Total	65.78	Error at Station/Auxiliary Consumption/Losses	0.28		

Note: Load summary on September 08, 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	1,538.35	254.70	241.66	1,210.08	13.04
2	Eastern Grid	444.08	65.98	64.90	451.67	1.08
	Total	1,982.43	320.68	306.56	1,661.75	14.12

Note: Load Summary on September 08, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	225.91	232.38	256.15
2	Eastern Grid	51.81	52.68	57.74
	National	277.72	285.06	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 9, 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	188.83	400kV THP - Siliguri Fdr- I	264.13	+	
		Unit- II	186.80	400kV THP - Siliguri Fdr- II	262.29	+	
		Unit- III	186.68	400kV THP - Siliguri Fdr- IV	263.20	+	
		Unit- IV	185.82	400kV THP - Malbase Fdr- III	323.89	+	
		Unit- V	186.88	400kV Malbase - Siliguri	233.23	+	
		Unit- VI	186.76	-	-	-	
		Total	1,121.77	Error at Station/Auxiliary Consumption/Losses	8.26		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	190.80	+	Unit-III under shutdown. Unit I under break down
		Unit-II	189.20	400kV MHP - Jigmeling Fdr - II	190.80	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.40	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	381.60	Error at Station/Auxiliary Consumption/Losses	0.00		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	87.75	+	Unit-I under breakdown.
		Unit- II	90.00	220kV CHP - Birpara Fdr- II	87.27	+	
		Unit- III	90.44	220kV CHP - Malbase Fdr- III	124.80	+	
		Unit- IV	90.28	220kV CHP - Semtokha Fdr- IV	-39.19	-	
		-	-	220kV Malbase - Birpara Fdr.	47.61	+	
		-	-	66kV CHP - Chumdo Fdr.	1.06	+	
		-	-	66kV CHP - Gedu Fdr.	7.45	+	
		-	-	3x3MVA, 66/11kV TFR	0.78	+	
Total	270.72	Error at Station/Auxiliary Consumption/Losses	0.80				
4	24MW BHP (U/S)	Unit- I	11.78	220kV BHP - Semtokha Fdr.	58.20	+	
		Unit- II	11.78	66kV BHP - Lobeyasa Fdr.	16.07	+	
		Total	23.56	220kV BHP - Tsirang Fdr.	-9.95	-	
	40MW BHP (L/S)	Unit- I	20.99	5MVA, 66/11kV TFR	0.48	+	
		Unit- II	20.17	30MVA ICT, 220/66kV			
		Total	41.16	Error at Station/Auxiliary Consumption/Losses	-0.08		
5	126MW DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	72.98	+	
		Unit-II	43.09	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	73.38	Error at Station/Auxiliary Consumption/Losses	0.40		
6	60MW KHP	Unit- I	16.39	132kV KHP - Nangkor Fdr- I	62.23	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.53	132kV KHP - Kilikhar Fdr- II	3.15	+	
		Unit- III	16.56	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.46	132kV Gelephu - Salakati Fdr.	47.45	+	
		-	-	132kV Motanga - Rangia Fdr.	39.28	+	
		-	-	220kV Tsirang - Jigmeling	62.89	+	
		Total	65.94	Error at Station/Auxiliary Consumption/Losses	0.06		

Note: Load summary on September 09, 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	1,530.59	222.22	212.84	1,245.48	9.38
2	Eastern Grid	447.54	42.10	42.04	468.33	0.06
	Total	1,978.13	264.32	254.88	1,713.81	9.44

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	216.97	239.68	256.15
2	Eastern Grid	41.75	52.38	57.74
	National	258.72	292.06	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.
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