

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: **September 7, 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	189.33	400kV THP - Siliguri Fdr- I	255.00	+	
		Unit- II	185.01	400kV THP - Siliguri Fdr- II	253.39	+	
		Unit- III	187.62	400kV THP - Siliguri Fdr- IV	246.54	+	
		Unit- IV	186.93	400kV THP - Malbase Fdr- III	349.55	+	
		Unit- V	187.10	400kV Malbase - Siliguri	217.70	+	
		Unit- VI	186.58	-	-	-	
		Total	1,122.57	Error at Station/Auxiliary Consumption/Losses	18.09		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	91.00	+	Unit-I & II under breakdown from 09:33hrs Unit-III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	92.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	183.82	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	183.82	Error at Station/Auxiliary Consumption/Losses	0.82		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	91.42	+	CHP Unit-I under breakdown..
		Unit- II	91.55	220kV CHP - Birpara Fdr- II	91.33	+	
		Unit- III	91.62	220kV CHP - Malbase Fdr- III	99.27	+	
		Unit- IV	91.50	220kV CHP - Semtokha Fdr- IV	-20.87	-	
		-	-	220kV Malbase - Birpara Fdr.	74.47	+	
		-	-	66kV CHP - Chumdo Fdr.	4.90	+	
		-	-	66kV CHP - Gedu Fdr.	7.16	+	
		Total	274.67	Error at Station/Auxiliary Consumption/Losses	0.18		
3	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	52.92	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	19.28	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-8.49	-	
	40MW BHP (L/S)	Unit- I	21.02	5MVA, 66/11kV TFR	1.20	+	
		Unit- II	20.17	30MVA ICT, 220/66kV			
Total	41.19	Error at Station/Auxiliary Consumption/Losses	0.08				
4	126MW DHPC	Unit-I	35.01	220kV DHPC - Tsirang Fdr.	92.50	+	
		Unit-II	58.11	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	93.12	Error at Station/Auxiliary Consumption/Losses	0.62		
5	60MW KHP	Unit- I	16.50	132kV KHP - Nangkor Fdr- I	55.56	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.42	132kV KHP - Kilikhar Fdr- II	9.18	+	
		Unit- III	16.57	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.37	132kV Gelephu - Salakati Fdr.	40.67	+	
		-	-	132kV Motanga - Rangia Fdr.	42.01	+	
		-	-	220kV Tsirang - Jigmeling	81.72	+	
		Total	65.86	Error at Station/Auxiliary Consumption/Losses	0.62		

Note: Load summary on September 07, 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	1,555.19	243.62	224.81	1,229.85	18.81
2	Eastern Grid	249.68	65.72	64.28	265.68	1.44
	Total	1,804.87	309.34	289.09	1,495.53	20.25

Note: Load Summary on September 07, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	219.53	223.02	256.15
2	Eastern Grid	51.81	52.68	57.74
	National	271.34	275.70	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 8, 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	186.52	400kV THP - Siliguri Fdr- I	265.73	+	
		Unit- II	185.39	400kV THP - Siliguri Fdr- II	263.70	+	
		Unit- III	186.27	400kV THP - Siliguri Fdr- IV	256.67	+	
		Unit- IV	186.53	400kV THP - Malbase Fdr- III	314.81	+	
		Unit- V	187.60	400kV Malbase - Siliguri	237.29	+	
		Unit- VI	186.09	-	-	-	
		Total	1,118.40	Error at Station/Auxiliary Consumption/Losses	17.49		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	192.00	+	Unit-I under breakdown Unit- III under shutdown
		Unit-II	189.60	400kV MHP - Jigmeling Fdr - II	186.82	+	
		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			
		-	-	(Local Load)			
		Total	381.40	Error at Station/Auxiliary Consumption/Losses	2.58		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	93.58	+	CHP Unit-I under breakdown.
		Unit- II	91.15	220kV CHP - Birpara Fdr- II	93.81	+	
		Unit- III	91.09	220kV CHP - Malbase Fdr- III	131.97	+	
		Unit- IV	91.79	220kV CHP - Semtokha Fdr- IV	-55.10	-	
		-	-	220kV Malbase - Birpara Fdr.	52.00	+	
		-	-	66kV CHP - Chumdo Fdr.	0.85	+	
		-	-	66kV CHP - Gedu Fdr.	7.17	+	
		-	-	3x3MVA, 66/11kV TFR	0.87	+	
Total	274.03	Error at Station/Auxiliary Consumption/Losses	0.88				
4	24MW BHP (U/S)	Unit- I	11.77	220kV BHP - Semtokha Fdr.	76.48	+	
		Unit- II	11.77	66kV BHP - Lobeyasa Fdr.	16.31	+	
		Total	23.54	220kV BHP - Tsirang Fdr.	-27.68	-	
	40MW BHP (L/S)	Unit- I	20.98	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	20.17	30MVA ICT, 220/66kV			
		Total	41.15	Error at Station/Auxiliary Consumption/Losses	-1.04		
5	126MW DHPC	Unit-I	30.31	220kV DHPC - Tsirang Fdr.	74.99	+	
		Unit-II	45.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	75.45	Error at Station/Auxiliary Consumption/Losses	0.46		
6	60MW KHP	Unit- I	16.45	132kV KHP - Nangkor Fdr- I	61.73	+	132kV Motanga_Rangia line open at Rangia end. Motanga Substation is bypassed through ERS tower.
		Unit-II	16.53	132kV KHP - Kilikhar Fdr- II	3.41	+	
		Unit- III	16.51	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.06	132kV Gelephu - Salakati Fdr.	63.20	+	
		-	-	132kV Motanga - Rangia Fdr.	0.00	+	
		-	-	220kV Tsirang - Jigmeling	45.03	+	
		Total	65.55	Error at Station/Auxiliary Consumption/Losses	-0.09		

Note: Load summary on September 08, 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	1,532.57	224.76	206.97	1,262.78	17.79
2	Eastern Grid	446.95	49.96	47.47	442.02	2.49
	Total	1,979.52	274.72	254.44	1,704.80	20.28

Note: Load Summary on September 08, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	214.23	232.28	256.15
2	Eastern Grid	42.27	52.68	57.74
	National	256.50	284.96	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:
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