

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 14, 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	187.31	400kV THP - Siliguri Fdr- I	258.74	+	
		Unit- II	187.32	400kV THP - Siliguri Fdr- II	254.36	+	
		Unit- III	186.98	400kV THP - Siliguri Fdr- IV	245.67	+	
		Unit- IV	186.92	400kV THP - Malbase Fdr- III	352.17	+	
		Unit- V	186.99	400kV Malbase - Siliguri	216.41	+	
		Unit- VI	186.33	-	-	-	
		Total	1,121.85	Error at Station/Auxiliary Consumption/Losses	10.91		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	196.30	+	Unit-III under shutdown. Unit I under break down
		Unit-II	192.30	400kV MHP - Jigmeling Fdr - II	190.80	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	194.61	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	386.91	Error at Station/Auxiliary Consumption/Losses	-0.19		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	92.29	+	Unit-I under breakdown..
		Unit- II	91.18	220kV CHP - Birpara Fdr- II	92.05	+	
		Unit- III	91.21	220kV CHP - Malbase Fdr- III	113.23	+	
		Unit- IV	90.98	220kV CHP - Semtokha Fdr- IV	-37.48	-	
		-	-	220kV Malbase - Birpara Fdr.	64.73	+	
		-	-	66kV CHP - Chumdo Fdr.	3.98	+	
		-	-	66kV CHP - Gedu Fdr.	8.17	+	
		Total	273.37	Error at Station/Auxiliary Consumption/Losses	-0.10		
3	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	69.61	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	19.62	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-24.41	-	
	40MW BHP (L/S)	Unit- I	21.04	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	20.18	30MVA ICT, 220/66kV			
Total	41.22	Error at Station/Auxiliary Consumption/Losses	0.59				
4	126MW DHPC	Unit-I	63.46	220kV DHPC - Tsirang Fdr.	126.09	+	
		Unit-II	63.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.64	Error at Station/Auxiliary Consumption/Losses	0.55		
5	60MW KHP	Unit- I	16.38	132kV KHP - Nangkor Fdr- I	56.91	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.26	132kV KHP - Kilikhar Fdr- II	7.64	+	
		Unit- III	16.46	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.35	132kV Gelephu - Salakati Fdr.	46.01	+	
		-	-	132kV Motanga - Rangia Fdr.	53.90	+	
		-	-	220kV Tsirang - Jigmeling	96.90	+	
		Total	65.45	Error at Station/Auxiliary Consumption/Losses	0.30		

Note: Load summary on September 14, 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	1,586.72	265.57	254.80	1,224.25	10.77
2	Eastern Grid	452.36	62.25	62.14	487.01	0.11
	Total	2,039.08	327.82	316.94	1,711.26	10.88

Note: Load Summary on September 14, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	254.93	254.93	256.15
2	Eastern Grid	43.20	43.20	57.74
	National	298.13	298.13	313.89

NOTES:

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:	September 15, 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	183.09	400kV THP - Siliguri Fdr- I	266.30	+	
		Unit- II	187.60	400kV THP - Siliguri Fdr- II	263.39	+	
		Unit- III	187.50	400kV THP - Siliguri Fdr- IV	256.76	+	
		Unit- IV	187.28	400kV THP - Malbase Fdr- III	312.85	+	
		Unit- V	186.96	400kV Malbase - Siliguri	239.76	+	
		Unit- VI	185.78	-	-	-	
		Total	1,118.21	Error at Station/Auxiliary Consumption/Losses	18.91		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	190.50	+	Unit-III under shutdown. Unit I under break down
		Unit-II	192.60	400kV MHP - Jigmeling Fdr - II	189.80	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	194.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	386.60	Error at Station/Auxiliary Consumption/Losses	6.30		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	91.12	+	Unit-I under breakdown.
		Unit- II	90.89	220kV CHP - Birpara Fdr- II	91.17	+	
		Unit- III	91.43	220kV CHP - Malbase Fdr- III	143.09	+	
		Unit- IV	91.42	220kV CHP - Semtokha Fdr- IV	-62.90	-	
		-	-	220kV Malbase - Birpara Fdr.	39.72	+	
		-	-	66kV CHP - Chumdo Fdr.	0.82	+	
		-	-	66kV CHP - Gedu Fdr.	8.46	+	
		Total	273.74	Error at Station/Auxiliary Consumption/Losses	1.08		
4	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	86.40	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	17.55	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-38.59	-	
	40MW BHP (L/S)	Unit- I	21.05	5MVA, 66/11kV TFR	0.58	+	
		Unit- II	20.24	30MVA ICT, 220/66kV			
Total	41.29	Error at Station/Auxiliary Consumption/Losses	-1.01				
5	126MW DHPC	Unit-I	62.21	220kV DHPC - Tsirang Fdr.	124.89	+	
		Unit-II	63.21	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	125.42	Error at Station/Auxiliary Consumption/Losses	0.53		
6	60MW KHP	Unit- I	16.50	132kV KHP - Nangkor Fdr- I	61.25	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.29	132kV KHP - Kilikhar Fdr- II	4.20	+	
		Unit- III	16.58	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.78	132kV Gelephu - Salakati Fdr.	52.19	+	
		-	-	132kV Motanga - Rangia Fdr.	48.70	+	
		-	-	220kV Tsirang - Jigmeling	78.20	+	
		Total	66.15	Error at Station/Auxiliary Consumption/Losses	0.20		

Note: Load summary on September 15, 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	1,582.30	255.88	236.37	1,248.22	19.51
2	Eastern Grid	452.75	49.76	43.26	481.19	6.50
	Total	2,035.05	305.64	279.63	1,729.41	26.01

Note: Load Summary on September 15, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	226.74	236.86	256.15
2	Eastern Grid	34.04	46.42	57.74
	National	260.78	283.28	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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