

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 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	185.00	400kV THP - Siliguri Fdr- I	227.23	+	
		Unit- II	110.02	400kV THP - Siliguri Fdr- II	225.90	+	
		Unit- III	185.00	400kV THP - Siliguri Fdr- IV	219.40	+	
		Unit- IV	120.01	400kV THP - Malbase Fdr- III	290.30	+	
		Unit- V	187.89	400kV Malbase - Siliguri	198.63	+	
		Unit- VI	185.00	-	-	-	
		Total	972.92	Error at Station/Auxiliary Consumption/Losses	10.09		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	269.10	+	Unit I under break down
		Unit-II	184.17	400kV MHP - Jigmeling Fdr - II	270.50	+	
		Unit-III	182.24	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	179.65	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	546.06	Error at Station/Auxiliary Consumption/Losses	6.46		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	91.93	+	Unit-I under breakdown
		Unit- II	91.32	220kV CHP - Birpara Fdr- II	91.89	+	
		Unit- III	91.40	220kV CHP - Malbase Fdr- III	139.58	+	
		Unit- IV	92.25	220kV CHP - Semtokha Fdr- IV	-62.30	-	
		-	-	220kV Malbase - Birpara Fdr.	42.98	+	
		-	-	66kV CHP - Chumdo Fdr.	4.00	+	
		-	-	66kV CHP - Gedu Fdr.	8.45	+	
		-	-	3x3MVA, 66/11kV TFR	1.28	+	
		Total	274.97	Error at Station/Auxiliary Consumption/Losses	0.14		
3	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	100.25	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	21.52	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-56.39	-	
	40MW BHP (L/S)	Unit- I	21.03	5MVA, 66/11kV TFR	0.64	+	
		Unit- II	20.20	30MVA ICT, 220/66kV			
Total	41.23	Error at Station/Auxiliary Consumption/Losses	1.19				
4	126MW DHPC	Unit-I	53.18	220kV DHPC - Tsirang Fdr.	104.50	+	
		Unit-II	54.06	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	107.24	Error at Station/Auxiliary Consumption/Losses	2.74		
5	60MW KHP	Unit- I	16.42	132kV KHP - Nangkhor Fdr- I	56.85	+	To transfer 132kV line from ERS arrangement back to Motanga station
		Unit-II	16.70	132kV KHP - Kilikhar Fdr- II	8.78	+	
		Unit- III	16.62	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.46	132kV Gelephu - Salakati Fdr.	67.38	+	
		-	-	132kV Motanga - Rangia Fdr.	0.00	+	
		-	-	220kV Tsirang - Jigmeling	45.50	+	
		Total	66.20	Error at Station/Auxiliary Consumption/Losses	0.07		

Note: Load summary on September 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	1,419.96	276.50	264.72	1,097.96	11.78
2	Eastern Grid	612.26	50.78	44.25	606.98	6.53
	Total	2,032.22	327.28	308.97	1,704.94	18.31

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.65	255.65	256.15
2	Eastern Grid	46.73	46.73	57.74
	National	302.38	302.38	313.89

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 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	187.04	400kV THP - Siliguri Fdr- I	271.80	+	
		Unit- II	186.05	400kV THP - Siliguri Fdr- II	270.76	+	
		Unit- III	186.49	400kV THP - Siliguri Fdr- IV	264.29	+	
		Unit- IV	186.90	400kV THP - Malbase Fdr- III	295.49	+	
		Unit- V	187.65	400kV Malbase - Siliguri	250.26	+	
		Unit- VI	185.99	-	-	-	
		Total	1,120.12	Error at Station/Auxiliary Consumption/Losses	17.78		
2	720MW MHP	Unit-I	61.20	400kV MHP - Jigmeling Fdr - I	311.00	+	
		Unit-II	189.20	400kV MHP - Jigmeling Fdr - II	312.70	+	
		Unit-III	189.90	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	191.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	631.80	Error at Station/Auxiliary Consumption/Losses	8.10		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	102.01	+	Unit-I under breakdown.
		Unit- II	91.54	220kV CHP - Birpara Fdr- II	102.35	+	
		Unit- III	91.52	220kV CHP - Malbase Fdr- III	159.30	+	
		Unit- IV	91.55	220kV CHP - Semtokha Fdr- IV	-98.58	-	
		-	-	220kV Malbase - Birpara Fdr.	45.82	+	
		-	-	66kV CHP - Chumdo Fdr.	0.17	+	
		-	-	66kV CHP - Gedu Fdr.	8.34	+	
		Total	274.61	Error at Station/Auxiliary Consumption/Losses	0.17		
4	24MW BHP (U/S)	Unit- I	11.81	220kV BHP - Semtokha Fdr.	125.87	+	
		Unit- II	11.81	66kV BHP - Lobeyasa Fdr.	19.58	+	
		Total	23.62	220kV BHP - Tsirang Fdr.	-79.61	-	
	40MW BHP (L/S)	Unit- I	20.92	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	20.09	30MVA ICT, 220/66kV			
Total	41.01	Error at Station/Auxiliary Consumption/Losses	-1.60				
5	126MW DHPC	Unit-I	63.53	220kV DHPC - Tsirang Fdr.	125.99	+	
		Unit-II	63.24	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.77	Error at Station/Auxiliary Consumption/Losses	0.78		
6	60MW KHP	Unit- I	16.41	132kV KHP - Nangkor Fdr- I	60.46	+	To transfer 132kV line from ERS arrangement back to Motanga station
		Unit-II	16.60	132kV KHP - Kilikhar Fdr- II	5.08	+	
		Unit- III	16.63	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	16.32	132kV Gelephu - Salakati Fdr.	76.10	+	
		-	-	132kV Motanga - Rangia Fdr.	0.00		
		-	-	220kV Tsirang - Jigmeling	41.85	+	
		Total	65.96	Error at Station/Auxiliary Consumption/Losses	0.22		

Note: Load summary on September 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	1,586.13	236.99	219.86	1,307.29	17.13
2	Eastern Grid	697.76	39.81	31.49	699.80	8.32
	Total	2,283.89	276.80	251.35	2,007.09	25.45

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	230.33	252.81	256.15
2	Eastern Grid	33.57	52.71	57.74
	National	263.90	305.52	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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