

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 12, 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	187.47	400kV THP - Siliguri Fdr- I	258.90	+	
		Unit- II	188.17	400kV THP - Siliguri Fdr- II	254.60	+	
		Unit- III	185.17	400kV THP - Siliguri Fdr- IV	245.13	+	
		Unit- IV	187.07	400kV THP - Malbase Fdr- III	354.01	+	
		Unit- V	187.07	400kV Malbase - Siliguri	215.90	+	
		Unit- VI	186.59	-	-	-	
		Total	1,121.54	Error at Station/Auxiliary Consumption/Losses	8.90		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	192.90	+	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	-0.49		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	94.84	+	Unit-I under breakdown..
		Unit- II	91.58	220kV CHP - Birpara Fdr- II	94.47	+	
		Unit- III	92.95	220kV CHP - Malbase Fdr- III	108.54	+	
		Unit- IV	92.06	220kV CHP - Semtokha Fdr- IV	-36.01	-	
		-	-	220kV Malbase - Birpara Fdr.	72.06	+	
		-	-	66kV CHP - Chumdo Fdr.	4.22	+	
		-	-	66kV CHP - Gedu Fdr.	8.56	+	
		-	-	3x3MVA, 66/11kV TFR	1.33	+	
		Total	276.59	Error at Station/Auxiliary Consumption/Losses	0.64		
3	24MW BHP (U/S)	Unit- I	11.78	220kV BHP - Semtokha Fdr.	70.46	+	
		Unit- II	11.78	66kV BHP - Lobeyasa Fdr.	20.23	+	
		Total	23.56	220kV BHP - Tsirang Fdr.	-26.22	-	
	40MW BHP (L/S)	Unit- I	21.73	5MVA, 66/11kV TFR	0.73	+	
		Unit- II	20.20	30MVA ICT, 220/66kV			
Total	41.93	Error at Station/Auxiliary Consumption/Losses	0.29				
4	126MW DHPC	Unit-I	42.40	220kV DHPC - Tsirang Fdr.	105.01	+	
		Unit-II	63.10	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	105.50	Error at Station/Auxiliary Consumption/Losses	0.49		
5	60MW KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	57.52	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	8.35	+	
		Unit- III	16.47	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.49	132kV Gelephu - Salakati Fdr.	63.76	+	
		-	-	132kV Motanga - Rangia Fdr.	21.70	+	
		-	-	220kV Tsirang - Jigmeling	73.65	+	
		Total	65.78	Error at Station/Auxiliary Consumption/Losses	-0.69		

Note: Load summary on September 12, 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	1,569.12	259.57	249.25	1,235.90	10.32
2	Eastern Grid	446.79	53.48	54.66	466.96	-1.18
	Total	2,015.91	313.05	303.91	1,702.86	9.14

Note: Load Summary on September 12, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	154.58	231.28	256.15
2	Eastern Grid	52.84	52.84	57.74
	National	207.42	284.12	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 13, 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	187.89	400kV THP - Siliguri Fdr- I	263.81	+	
		Unit- II	187.43	400kV THP - Siliguri Fdr- II	263.05	+	
		Unit- III	187.66	400kV THP - Siliguri Fdr- IV	263.66	+	
		Unit- IV	184.99	400kV THP - Malbase Fdr- III	320.97	+	
		Unit- V	187.19	400kV Malbase - Siliguri	234.53	+	
		Unit- VI	186.79	-	-	-	
		Total	1,121.95	Error at Station/Auxiliary Consumption/Losses	10.46		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	193.00	+	Unit-III under shutdown. Unit I under break down
		Unit-II	189.22	400kV MHP - Jigmeling Fdr - II	187.30	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	191.98	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	381.20	Error at Station/Auxiliary Consumption/Losses	0.90		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	98.17	+	Unit-I under breakdown.
		Unit- II	91.95	220kV CHP - Birpara Fdr- II	97.77	+	
		Unit- III	91.94	220kV CHP - Malbase Fdr- III	149.00	+	
		Unit- IV	91.83	220kV CHP - Semtokha Fdr- IV	-78.87	-	
		-	-	220kV Malbase - Birpara Fdr.	46.27	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.50	+	
		-	-	66kV CHP - Gedu Fdr.	8.89	+	
		Total	275.72	Error at Station/Auxiliary Consumption/Losses	0.47		
4	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	100.13	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	17.92	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-52.59	-	
	40MW BHP (L/S)	Unit- I	20.96	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	20.16	30MVA ICT, 220/66kV			
		Total	41.12	Error at Station/Auxiliary Consumption/Losses	-1.17		
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	16.59	132kV KHP - Nangkor Fdr- I	62.44	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.63	132kV KHP - Kilikhar Fdr- II	3.52	+	
		Unit- III	16.80	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.47	132kV Gelephu - Salakati Fdr.	63.19	+	
		-	-	132kV Motanga - Rangia Fdr.	53.00	+	
		-	-	220kV Tsirang - Jigmeling	69.37	+	
		Total	66.49	Error at Station/Auxiliary Consumption/Losses	0.03		

Note: Load summary on September 13, 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	1,589.08	252.45	242.16	1,267.26	10.29
2	Eastern Grid	447.69	20.57	19.64	496.49	0.93
	Total	2,036.77	273.02	261.80	1,763.75	11.22

Note: Load Summary on September 13, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	135.25	250.72	256.15
2	Eastern Grid	36.87	43.16	57.74
	National	172.12	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.