

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 16, 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	188.47	400kV THP - Siliguri Fdr- I	265.89	+	
		Unit- II	185.46	400kV THP - Siliguri Fdr- II	263.14	+	
		Unit- III	187.25	400kV THP - Siliguri Fdr- IV	251.47	+	
		Unit- IV	186.70	400kV THP - Malbase Fdr- III	333.40	+	
		Unit- V	187.66	400kV Malbase - Siliguri	227.08	+	
		Unit- VI	185.67	-	-	-	
		Total	1,121.21	Error at Station/Auxiliary Consumption/Losses	7.31		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	268.00	+	Unit I under break down
		Unit-II	179.20	400kV MHP - Jigmeling Fdr - II	270.30	+	
		Unit-III	178.80	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	180.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	538.50	Error at Station/Auxiliary Consumption/Losses	0.20		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	90.34	+	Unit-I under breakdown..
		Unit- II	90.83	220kV CHP - Birpara Fdr- II	90.64	+	
		Unit- III	91.28	220kV CHP - Malbase Fdr- III	124.90	+	
		Unit- IV	91.55	220kV CHP - Semtokha Fdr- IV	-47.60	-	
		-	-	220kV Malbase - Birpara Fdr.	52.81	+	
		-	-	66kV CHP - Chumdo Fdr.	3.82	+	
		-	-	66kV CHP - Gedu Fdr.	8.26	+	
		Total	273.66	Error at Station/Auxiliary Consumption/Losses	1.57		
3	24MW BHP (U/S)	Unit- I	11.79	220kV BHP - Semtokha Fdr.	80.83	+	
		Unit- II	11.79	66kV BHP - Lobeyasa Fdr.	19.95	+	
		Total	23.58	220kV BHP - Tsirang Fdr.	-35.70	-	
	40MW BHP (L/S)	Unit- I	20.89	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	20.09	30MVA ICT, 220/66kV			
Total	40.98	Error at Station/Auxiliary Consumption/Losses	1.20				
4	126MW DHPC	Unit-I	60.28	220kV DHPC - Tsirang Fdr.	122.84	+	
		Unit-II	63.19	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	123.47	Error at Station/Auxiliary Consumption/Losses	0.63		
5	60MW KHP	Unit- I	16.74	132kV KHP - Nangkor Fdr- I	56.41	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.40	132kV KHP - Kilikhar Fdr- II	8.17	+	
		Unit- III	16.66	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.55	132kV Gelephu - Salakati Fdr.	42.32	+	
		-	-	132kV Motanga - Rangia Fdr.	46.60	+	
		-	-	220kV Tsirang - Jigmeling	82.43	+	
		Total	66.35	Error at Station/Auxiliary Consumption/Losses	1.27		

Note: Load summary on September 16, 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	1,582.90	259.10	250.79	1,241.37	8.31
2	Eastern Grid	604.85	60.06	58.59	627.22	1.47
	Total	2,187.75	319.16	309.38	1,868.59	9.78

Note: Load Summary on September 16, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.67	239.67	256.15
2	Eastern Grid	43.90	43.90	57.74
	National	283.57	283.57	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 17, 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	186.31	400kV THP - Siliguri Fdr- I	264.89	+	
		Unit- II	187.88	400kV THP - Siliguri Fdr- II	263.56	+	
		Unit- III	187.42	400kV THP - Siliguri Fdr- IV	253.96	+	
		Unit- IV	185.82	400kV THP - Malbase Fdr- III	325.94	+	
		Unit- V	188.18	400kV Malbase - Siliguri	232.30	+	
		Unit- VI	185.40	-	-	-	
		Total	1,121.01	Error at Station/Auxiliary Consumption/Losses	12.66		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	270.63	+	Unit I under break down
		Unit-II	179.41	400kV MHP - Jigmeling Fdr - II	268.30	+	
		Unit-III	179.73	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	180.54	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	539.68	Error at Station/Auxiliary Consumption/Losses	0.75		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	71.77	+	Unit-I under breakdown. Unit-II under emergency shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	71.69	+	
		Unit- III	91.88	220kV CHP - Malbase Fdr- III	110.17	+	
		Unit- IV	92.30	220kV CHP - Semtokha Fdr- IV	-79.90	-	
		-	-	220kV Malbase - Birpara Fdr.	33.08	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.42	+	
		-	-	66kV CHP - Gedu Fdr.	8.26	+	
		Total	184.18	Error at Station/Auxiliary Consumption/Losses	1.61		
4	24MW BHP (U/S)	Unit- I	11.81	220kV BHP - Semtokha Fdr.	100.71	+	
		Unit- II	11.81	66kV BHP - Lobeyasa Fdr.	16.49	+	
		Total	23.62	220kV BHP - Tsirang Fdr.	-52.00	-	
	40MW BHP (L/S)	Unit- I	20.79	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	20.00	30MVA ICT, 220/66kV			
Total	40.79	Error at Station/Auxiliary Consumption/Losses	-1.21				
5	126MW DHPC	Unit-I	56.36	220kV DHPC - Tsirang Fdr.	118.94	+	
		Unit-II	63.19	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	119.55	Error at Station/Auxiliary Consumption/Losses	0.61		
6	60MW KHP	Unit- I	16.34	132kV KHP - Nangkhor Fdr- I	61.07	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	15.91	132kV KHP - Kilikhar Fdr- II	3.56	+	
		Unit- III	16.26	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.35	132kV Gelephu - Salakati Fdr.	43.53	+	
		-	-	132kV Motanga - Rangia Fdr.	41.00	+	
		-	-	220kV Tsirang - Jigmeling	63.54	+	
		Total	64.86	Error at Station/Auxiliary Consumption/Losses	-0.17		

Note: Load summary on September 17, 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	1,489.15	234.36	220.69	1,191.25	13.67
2	Eastern Grid	604.54	44.62	44.04	623.46	0.58
	Total	2,093.69	278.98	264.73	1,814.71	14.25

Note: Load Summary on September 17, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	133.89	147.16	256.15
2	Eastern Grid	27.66	49.28	57.74
	National	161.55	196.44	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.