

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 3, 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	186.69	400kV THP - Siliguri Fdr- I	371.23	+	400kV THP-MAL fdr III shutdown till 22/10/2019
		Unit- II	186.67	400kV THP - Siliguri Fdr- II	369.95	+	
		Unit- III	186.19	400kV THP - Siliguri Fdr- IV	360.79	+	
		Unit- IV	187.03	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	186.20	400kV Malbase - Siliguri	-45.94	-	
		Unit- VI	186.78	-	-	-	
		Total	1,119.56	Error at Station/Auxiliary Consumption/Losses	17.59		
2	720MW MHP	Unit-I	82.20	400kV MHP - Jigmeling Fdr - I	232.00	+	Unit-III under break down
		Unit-II	193.00	400kV MHP - Jigmeling Fdr - II	231.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.90	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	471.10	Error at Station/Auxiliary Consumption/Losses	7.60		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	82.61	+	Unit-I under breakdown
		Unit- II	91.53	220kV CHP - Birpara Fdr- II	82.19	+	
		Unit- III	91.52	220kV CHP - Malbase Fdr- III	145.53	+	
		Unit- IV	91.31	220kV CHP - Semtokha Fdr- IV	-50.78	-	
		-	-	220kV Malbase - Birpara Fdr.	24.34	+	
		-	-	66kV CHP - Chumdo Fdr.	4.75	+	
		-	-	66kV CHP - Gedu Fdr.	8.25	+	
		Total	274.36	Error at Station/Auxiliary Consumption/Losses	0.34		
3	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	89.35	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	21.51	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-45.63	-	
	40MW BHP (L/S)	Unit- I	20.97	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	20.21	30MVA ICT, 220/66kV			
Total	41.18	Error at Station/Auxiliary Consumption/Losses	1.08				
4	126MW DHPC	Unit-I	47.36	220kV DHPC - Tsirang Fdr.	96.95	+	
		Unit-II	50.13	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	97.49	Error at Station/Auxiliary Consumption/Losses	0.54		
5	60MW KHP	Unit- I	16.64	132kV KHP - Nangkhor Fdr- I	56.69	+	132kV GEL_SALA line under shutdown.
		Unit-II	16.58	132kV KHP - Kilikhar Fdr- II	8.65	+	
		Unit- III	16.57	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.49	132kV Gelephu - Salakati Fdr.	0.00	+	
		-	-	132kV Motanga - Rangia Fdr.	55.79	+	
		-	-	220kV Tsirang - Jigmeling	47.15	+	
		Total	66.28	Error at Station/Auxiliary Consumption/Losses	0.44		

Note: Load summary on October 03, 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	1,556.23	263.91	246.52	1,245.17	17.39
2	Eastern Grid	537.38	65.24	57.20	519.29	8.04
	Total	2,093.61	329.15	303.72	1,764.46	25.43

Note: Load Summary on October 03, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	273.50	273.50	281.60
2	Eastern Grid	55.67	55.67	62.24
	National	329.17	329.17	343.84

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:	October 4, 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	187.84	400kV THP - Siliguri Fdr- I	372.59	+	400kV THP-Mal Fdr III under AM
		Unit- II	186.49	400kV THP - Siliguri Fdr- II	369.18	+	
		Unit- III	186.59	400kV THP - Siliguri Fdr- IV	359.98	+	
		Unit- IV	186.32	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	186.42	400kV Malbase - Siliguri	5.43	+	
		Unit- VI	185.85	-	-	-	
		Total	1,119.51	Error at Station/Auxiliary Consumption/Losses	17.76		
2	720MW MHP	Unit-I	82.20	400kV MHP - Jigmeling Fdr - I	240.70	+	Unit-III under breakdown.
		Unit-II	193.40	400kV MHP - Jigmeling Fdr - II	239.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.60	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	471.20	Error at Station/Auxiliary Consumption/Losses	-8.60		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	87.50	+	Unit-I under breakdown.
		Unit- II	90.52	220kV CHP - Birpara Fdr- II	87.20	+	
		Unit- III	91.44	220kV CHP - Malbase Fdr- III	177.73	+	
		Unit- IV	91.52	220kV CHP - Semtokha Fdr- IV	-89.17	-	
		-	-	220kV Malbase - Birpara Fdr.	7.16	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.04	-	
		-	-	66kV CHP - Gedu Fdr.	9.48	+	
		Total	273.48	Error at Station/Auxiliary Consumption/Losses	0.05		
4	24MW BHP (U/S)	Unit- I	11.79	220kV BHP - Semtokha Fdr.	116.25	+	
		Unit- II	11.79	66kV BHP - Lobeyasa Fdr.	19.29	+	
		Total	23.58	220kV BHP - Tsirang Fdr.	-69.86	-	
	40MW BHP (L/S)	Unit- I	21.02	5MVA, 66/11kV TFR	0.44	+	
		Unit- II	20.16	30MVA ICT, 220/66kV			
Total	41.18	Error at Station/Auxiliary Consumption/Losses	-1.36				
5	126MW DHPC	Unit-I	50.44	220kV DHPC - Tsirang Fdr.	103.07	+	
		Unit-II	53.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	103.60	Error at Station/Auxiliary Consumption/Losses	0.53		
6	60MW KHP	Unit- I	16.60	132kV KHP - Nangkhor Fdr- I	60.95	+	132kV GEL_SALA Fdr under shutdown.
		Unit-II	16.56	132kV KHP - Kilikhar Fdr- II	4.56	+	
		Unit- III	16.48	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.46	132kV Gelephu - Salakati Fdr.		+	
		-	-	132kV Motanga - Rangia Fdr.	51.00	+	
		-	-	220kV Tsirang - Jigmeling	29.46	+	
		Total	66.10	Error at Station/Auxiliary Consumption/Losses	0.09		

Note: Load summary on October 04, 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	1,561.35	242.85	225.87	1,289.04	16.98
2	Eastern Grid	537.30	35.96	44.47	530.80	-8.51
	Total	2,098.65	278.81	270.34	1,819.84	8.47

Note: Load Summary on October 04, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.38	232.72	281.60
2	Eastern Grid	35.20	57.49	62.24
	National	246.58	290.21	343.84

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.