

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 8, 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	186.88	400kV THP - Siliguri Fdr- I	354.39	+	400kV THP-SIL III under shutdown
		Unit- II	183.79	400kV THP - Siliguri Fdr- II	352.14	+	
		Unit- III	188.39	400kV THP - Siliguri Fdr- IV	342.42	+	
		Unit- IV	186.99	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	131.20	400kV Malbase - Siliguri	-20.53	-	
		Unit- VI	185.88	-	-	-	
		Total	1,063.13	Error at Station/Auxiliary Consumption/Losses	14.18		
2	720MW MHP	Unit-I	80.70	400kV MHP - Jigmeling Fdr - I	265.90	+	Unit-IV trip at 16:49Hrs & Unit-III under Shutdown, 400kV MHP_JIG Fdr.II Standby
		Unit-II	180.60	400kV MHP - Jigmeling Fdr - II	0.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	261.30	Error at Station/Auxiliary Consumption/Losses	-4.60		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	79.69	+	Unit-I under Shutdown
		Unit- II	91.22	220kV CHP - Birpara Fdr- II	79.73	+	
		Unit- III	90.20	220kV CHP - Malbase Fdr- III	154.77	+	
		Unit- IV	91.51	220kV CHP - Semtokha Fdr- IV	-56.75	-	
		-	-	220kV Malbase - Birpara Fdr.	12.58	+	
		-	-	66kV CHP - Chumdo Fdr.	3.99	+	
		-	-	66kV CHP - Gedu Fdr.	8.48	+	
		Total	272.93	Error at Station/Auxiliary Consumption/Losses	1.67		
3	24MW BHP (U/S)	Unit- I	11.78	220kV BHP - Semtokha Fdr.	90.13	+	
		Unit- II	11.78	66kV BHP - Lobeyasa Fdr.	19.85	+	
		Total	23.56	220kV BHP - Tsirang Fdr.	-44.47	-	
	40MW BHP (L/S)	Unit- I	20.97	5MVA, 66/11kV TFR	0.56	+	
		Unit- II	20.17	30MVA ICT, 220/66kV			
Total	41.14	Error at Station/Auxiliary Consumption/Losses	1.37				
4	126MW DHPC	Unit-I	63.32	220kV DHPC - Tsirang Fdr.	124.84	+	
		Unit-II	62.12	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	125.44	Error at Station/Auxiliary Consumption/Losses	0.60		
5	60MW KHP	Unit- I	16.70	132kV KHP - Nangkor Fdr- I	57.30	+	
		Unit-II	16.61	132kV KHP - Kilikhar Fdr- II	8.65	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	43.60	+	
		-	-	132kV Motanga - Rangia Fdr.	46.10	+	
		-	-	220kV Tsirang - Jigmeling	75.47	+	
		Total	66.33	Error at Station/Auxiliary Consumption/Losses	-0.12		

Note: Load summary on October 08, 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	1,526.20	250.31	235.23	1,200.42	15.08
2	Eastern Grid	327.63	47.50	52.22	355.60	-4.72
	Total	1,853.83	297.81	287.45	1,556.02	10.36

Note: Load Summary on October 08, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	250.47	250.47	281.60
2	Eastern Grid	53.27	55.36	62.24
	National	303.74	305.83	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:

- 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.

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 9, 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	187.13	400kV THP - Siliguri Fdr- I	329.54	+	400kV THP-Malbase under shutdown.
		Unit- II	149.49	400kV THP - Siliguri Fdr- II	326.30	+	
		Unit- III	187.38	400kV THP - Siliguri Fdr- IV	319.64	+	
		Unit- IV	186.33	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	131.13	400kV Malbase - Siliguri	8.71	+	
		Unit- VI	148.58	-	-	-	
		Total	990.04	Error at Station/Auxiliary Consumption/Losses	14.56		
2	720MW MHP	Unit-I	82.50	400kV MHP - Jigmeling Fdr - I	232.00	+	Unit-III under breakdown.
		Unit-II	193.20	400kV MHP - Jigmeling Fdr - II	230.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	196.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	471.70	Error at Station/Auxiliary Consumption/Losses	9.70		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	78.00	+	Unit-I under breakdown.
		Unit- II	90.87	220kV CHP - Birpara Fdr- II	78.09	+	
		Unit- III	91.47	220kV CHP - Malbase Fdr- III	165.70	+	
		Unit- IV	91.61	220kV CHP - Semtokha Fdr- IV	-59.50	-	
		-	-	220kV Malbase - Birpara Fdr.	1.16	+	
		-	-	66kV CHP - Chumdo Fdr.	1.30	+	
		-	-	66kV CHP - Gedu Fdr.	8.92	+	
		Total	273.95	Error at Station/Auxiliary Consumption/Losses	0.62		
4	24MW BHP (U/S)	Unit- I	11.78	220kV BHP - Semtokha Fdr.	83.35	+	
		Unit- II	11.78	66kV BHP - Lobeyasa Fdr.	17.30	+	
		Total	23.56	220kV BHP - Tsirang Fdr.	-35.43	-	
	40MW BHP (L/S)	Unit- I	20.90	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	20.05	30MVA ICT, 220/66kV			
Total	40.95	Error at Station/Auxiliary Consumption/Losses	-1.08				
5	126MW DHPC	Unit-I	48.37	220kV DHPC - Tsirang Fdr.	96.07	+	
		Unit-II	48.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	96.51	Error at Station/Auxiliary Consumption/Losses	0.44		
6	60MW KHP	Unit- I	16.44	132kV KHP - Nangkhor Fdr- I	60.75	+	
		Unit-II	16.57	132kV KHP - Kilikhar Fdr- II	8.65	+	
		Unit- III	16.62	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.60	132kV Gelephu - Salakati Fdr.	41.59	+	
		-	-	132kV Motanga - Rangia Fdr.	46.10	+	
		-	-	220kV Tsirang - Jigmeling	57.39	+	
		Total	66.23	Error at Station/Auxiliary Consumption/Losses	-3.57		

Note: Load summary on October 09, 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	1,425.01	226.18	211.64	1,141.44	14.54
2	Eastern Grid	537.93	45.63	39.50	549.69	6.13
	Total	1,962.94	271.81	251.14	1,691.13	20.67

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	214.06	240.68	281.60
2	Eastern Grid	42.19	56.26	62.24
	National	256.25	296.94	343.84

NOTES: WLDC LOADS COLLECTED FROM SITE

- 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.