

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 24, 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	90.45	400kV THP - Siliguri Fdr- I	159.21	+	Unit III & V under shutdown. 400kV THP_MAL line under maintenance.
		Unit- II	88.25	400kV THP - Siliguri Fdr- II	157.77	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	153.75	+	
		Unit- IV	149.90	400kV THP - Malbase Fdr- III	0.00	-	
		Unit- V	0.00	400kV Malbase - Siliguri	-53.02	-	
		Unit- VI	150.56	-	-	-	
		Total	479.16	Error at Station/Auxiliary Consumption/Losses		8.43	
2	720MW MHP	Unit-I	82.00	400kV MHP - Jigmeling Fdr - I	136.00	+	Unit-III under shutdown.
		Unit-II	120.00	400kV MHP - Jigmeling Fdr - II	135.30	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	70.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	272.00	Error at Station/Auxiliary Consumption/Losses		0.70	
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	54.97	+	Unit-I under shutdown
		Unit- II	87.44	220kV CHP - Birpara Fdr- II	54.82	+	
		Unit- III	85.12	220kV CHP - Malbase Fdr- III	122.19	+	
		Unit- IV	85.85	220kV CHP - Semtokha Fdr- IV	8.63	+	
		-	-	220kV Malbase - Birpara Fdr.	-3.62	-	
		-	-	66kV CHP - Chumdo Fdr.	9.57	+	
		-	-	66kV CHP - Gedu Fdr.	6.61	+	
		Total	258.41	Error at Station/Auxiliary Consumption/Losses		0.13	
3	24MW BHP (U/S)	Unit- I	9.09	220kV BHP - Semtokha Fdr.	39.04	+	
		Unit- II	9.09	66kV BHP - Lobeysa Fdr.	18.72	+	
		Total	18.18	220kV BHP - Tsirang Fdr.	-4.66	-	
	40MW BHP (L/S)	Unit- I	18.01	5MVA, 66/11kV TFR	0.58	+	
		Unit- II	17.31	30MVA ICT, 220/66kV			
Total	35.32	Error at Station/Auxiliary Consumption/Losses		0.18			
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	55.92	+	Unit I Standby
		Unit-II	56.19	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	56.19	Error at Station/Auxiliary Consumption/Losses		0.27	
5	60MW KHP	Unit- I	14.44	132kV KHP - Nangkhor Fdr- I	48.73	+	
		Unit-II	14.46	132kV KHP - Kilikhar Fdr- II	9.74	+	
		Unit- III	16.01	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	14.56	132kV Gelephu - Salakati Fdr.	18.34	+	
		-	-	132kV Motanga - Rangia Fdr.	30.46	+	
		-	-	220kV Tsirang - Jigmeling	48.49	+	
		Total	59.47	Error at Station/Auxiliary Consumption/Losses		0.60	

Note: Load summary on October 24, 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	847.26	274.89	266.24	523.88	8.65
2	Eastern Grid	331.47	59.86	58.56	320.10	1.30
	Total	1,178.73	334.75	324.80	843.98	9.95

Note: Load Summary on October 24, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	257.70	257.70	281.60
2	Eastern Grid	54.37	56.76	62.24
	National	312.07	314.46	343.84

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:	October 25, 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	127.96	400kV THP - Siliguri Fdr- I	139.63	+	Unit-I standby. Unit III & V under shutdown. 400kV THP_MAL line under maintenance.
		Unit- II	88.48	400kV THP - Siliguri Fdr- II	138.70	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	110.71	400kV THP - Malbase Fdr- III	190.36	+	
		Unit- V	0.00	400kV Malbase - Siliguri	118.88	+	
		Unit- VI	150.23	-	-	-	
		Total	477.38	Error at Station/Auxiliary Consumption/Losses	8.69		
2	720MW MHP	Unit-I	84.07	400kV MHP - Jigmeling Fdr - I	137.00	+	Unit-III & IV under shutdown.
		Unit-II	94.00	400kV MHP - Jigmeling Fdr - II	137.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	94.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	272.07	Error at Station/Auxiliary Consumption/Losses	-1.93		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	55.40	+	CHP Unit-I under shutdown.
		Unit- II	72.04	220kV CHP - Birpara Fdr- II	55.16	+	
		Unit- III	73.17	220kV CHP - Malbase Fdr- III	108.85	+	
		Unit- IV	73.88	220kV CHP - Semtokha Fdr- IV	-14.23	-	
		-	-	220kV Malbase - Birpara Fdr.	7.03	+	
		-	-	66kV CHP - Chumdo Fdr.	4.83	+	
		-	-	66kV CHP - Gedu Fdr.	7.45	+	
		-	-	3x3MVA, 66/11kV TFR	0.93	+	
		Total	219.09	Error at Station/Auxiliary Consumption/Losses	0.70		
4	24MW BHP (U/S)	Unit- I	9.00	220kV BHP - Semtokha Fdr.	46.88	+	
		Unit- II	9.00	66kV BHP - Lobeyasa Fdr.	15.67	+	
		Total	18.00	220kV BHP - Tsirang Fdr.	-9.82	-	
	40MW BHP (L/S)	Unit- I	17.94	5MVA, 66/11kV TFR	0.35	+	
		Unit- II	17.19	30MVA ICT, 220/66kV			
Total	35.13	Error at Station/Auxiliary Consumption/Losses	0.05				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	57.11	+	
		Unit-II	57.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	57.18	Error at Station/Auxiliary Consumption/Losses	0.07		
6	60MW KHP	Unit- I	13.14	132kV KHP - Nangkor Fdr- I	48.82	+	
		Unit-II	13.06	132kV KHP - Kilikhar Fdr- II	5.28	+	
		Unit- III	15.08	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	13.19	132kV Gelephu - Salakati Fdr.	25.00	+	
		-	-	132kV Motanga - Rangia Fdr.	23.00	+	
		-	-	220kV Tsirang - Jigmeling	45.00	+	
		Total	54.47	Error at Station/Auxiliary Consumption/Losses	0.07		

Note: Load summary on October 25, 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	806.78	246.98	237.47	514.80	9.51
2	Eastern Grid	326.54	49.54	51.40	322.00	-1.86
	Total	1,133.32	296.52	288.87	836.80	7.65

Note: Load Summary on October 25, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	252.78	260.68	281.60
2	Eastern Grid	36.20	62.24	62.24
	National	288.98	322.92	343.84

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.