

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 22, 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	0.00	400kV THP - Siliguri Fdr- I	138.00	+	Unit-I standby. Unit III & V under shutdown. 400kV THP_MAL line under maintenance.
		Unit- II	120.20	400kV THP - Siliguri Fdr- II	136.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	132.44	+	
		Unit- IV	140.09	400kV THP - Malbase Fdr- III	0.00	-	
		Unit- V	0.00	400kV Malbase - Siliguri	-59.09	-	
		Unit- VI	149.24	-	-	-	
		Total	409.53	Error at Station/Auxiliary Consumption/Losses	3.09		
2	720MW MHP	Unit-I	84.36	400kV MHP - Jigmeling Fdr - I	137.40	+	Unit-III & Unit-IV under shutdown.
		Unit-II	193.26	400kV MHP - Jigmeling Fdr - II	135.50	+	
		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	277.62	Error at Station/Auxiliary Consumption/Losses	4.72		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	50.99	+	Unit-I under shutdown
		Unit- II	91.59	220kV CHP - Birpara Fdr- II	50.69	+	
		Unit- III	56.39	220kV CHP - Malbase Fdr- III	110.50	+	
		Unit- IV	91.24	220kV CHP - Semtokha Fdr- IV	8.79	+	
		-	-	220kV Malbase - Birpara Fdr.	-0.22	-	
		-	-	66kV CHP - Chumdo Fdr.	8.90	+	
		-	-	66kV CHP - Gedu Fdr.	7.49	+	
		-	-	3x3MVA, 66/11kV TFR	1.53	+	
		Total	239.22	Error at Station/Auxiliary Consumption/Losses	0.33		
3	24MW BHP (U/S)	Unit- I	9.50	220kV BHP - Semtokha Fdr.	37.07	+	
		Unit- II	9.50	66kV BHP - Lobeysa Fdr.	18.83	+	
		Total	19.00	220kV BHP - Tsirang Fdr.	-1.25	-	
	40MW BHP (L/S)	Unit- I	18.65	5MVA, 66/11kV TFR	1.25	+	
		Unit- II	17.95	30MVA ICT, 220/66kV			
Total	36.60	Error at Station/Auxiliary Consumption/Losses	0.30				
4	126MW DHPC	Unit-I	28.33	220kV DHPC - Tsirang Fdr.	57.07	+	
		Unit-II	29.15	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	57.48	Error at Station/Auxiliary Consumption/Losses	0.41		
5	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	56.22	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	9.12	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	19.40	+	
		-	-	132kV Motanga - Rangia Fdr.	37.15	+	
		-	-	220kV Tsirang - Jigmeling	52.98	+	
		Total	66.00	Error at Station/Auxiliary Consumption/Losses	0.41		

Note: Load summary on October 22, 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	761.83	260.04	256.51	448.81	3.53
2	Eastern Grid	343.62	67.15	62.02	329.45	5.13
	Total	1,105.45	327.19	318.53	778.26	8.66

Note: Load Summary on October 22, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	266.95	266.95	281.60
2	Eastern Grid	51.60	55.34	62.24
	National	318.55	322.29	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 23, 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	0.00	400kV THP - Siliguri Fdr- I	183.72	+	Unit-I standby. Unit III & V under shutdown. 400kV THP_MAL line under maintenance.
		Unit- II	184.49	400kV THP - Siliguri Fdr- II	182.73	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	177.92	+	
		Unit- IV	183.67	400kV THP - Malbase Fdr- III	0.00	-	
		Unit- V	0.00	400kV Malbase - Siliguri	-27.43	-	
		Unit- VI	186.94	-	-	-	
		Total	555.10	Error at Station/Auxiliary Consumption/Losses	10.73		
2	720MW MHP	Unit-I	84.07	400kV MHP - Jigmeling Fdr - I	138.50	+	Unit-III & IV under shutdown.
		Unit-II	193.20	400kV MHP - Jigmeling Fdr - II	138.81	+	
		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			
		-	-	(Local Load)			
		Total	277.27	Error at Station/Auxiliary Consumption/Losses	-0.04		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	56.95	+	CHP Unit-I under shutdown.
		Unit- II	84.98	220kV CHP - Birpara Fdr- II	56.64	+	
		Unit- III	80.32	220kV CHP - Malbase Fdr- III	139.45	+	
		Unit- IV	81.25	220kV CHP - Semtokha Fdr- IV	-19.86	-	
		-	-	220kV Malbase - Birpara Fdr.	-13.41	-	
		-	-	66kV CHP - Chumdo Fdr.	5.07	+	
		-	-	66kV CHP - Gedu Fdr.	7.06	+	
		Total	246.55	Error at Station/Auxiliary Consumption/Losses	0.31		
4	24MW BHP (U/S)	Unit- I	9.35	220kV BHP - Semtokha Fdr.	52.56	+	
		Unit- II	9.35	66kV BHP - Lobeyasa Fdr.	16.19	+	
		Total	18.70	220kV BHP - Tsirang Fdr.	-14.05	-	
	40MW BHP (L/S)	Unit- I	18.39	5MVA, 66/11kV TFR	0.35	+	
		Unit- II	17.66	30MVA ICT, 220/66kV			
		Total	36.05	Error at Station/Auxiliary Consumption/Losses	-0.30		
5	126MW DHPC	Unit-I	28.32	220kV DHPC - Tsirang Fdr.	57.11	+	
		Unit-II	29.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	57.48	Error at Station/Auxiliary Consumption/Losses	0.37		
6	60MW KHP	Unit- I	14.00	132kV KHP - Nangkhor Fdr- I	51.44	+	
		Unit-II	14.10	132kV KHP - Kilikhar Fdr- II	5.26	+	
		Unit- III	15.32	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.04	132kV Gelephu - Salakati Fdr.	23.16	+	
		-	-	132kV Motanga - Rangia Fdr.	24.00	+	
		-	-	220kV Tsirang - Jigmeling	41.70	+	
		Total	57.46	Error at Station/Auxiliary Consumption/Losses	0.46		

Note: Load summary on October 23, 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	913.88	255.06	243.95	617.12	11.11
2	Eastern Grid	334.73	51.96	51.54	324.47	0.42
	Total	1,248.61	307.02	295.49	941.59	11.53

Note: Load Summary on October 23, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	236.86	256.10	281.60
2	Eastern Grid	40.65	56.76	62.24
	National	277.51	312.86	343.84

NOTES:

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