

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 23, 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	183.83	+	Unit-I standby. Unit III & V under shutdown. 400kV THP_MAL line under maintenance.
		Unit- II	184.57	400kV THP - Siliguri Fdr- II	183.59	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	183.17	+	
		Unit- IV	184.27	400kV THP - Malbase Fdr- III	0.00		
		Unit- V	0.00	400kV Malbase - Siliguri	-56.90	-	
		Unit- VI	185.50	-	-	-	
		Total	554.34	Error at Station/Auxiliary Consumption/Losses	3.75		
2	720MW MHP	Unit-I	85.00	400kV MHP - Jigmeling Fdr - I	137.00	+	Unit-III under shutdown.
		Unit-II	121.00	400kV MHP - Jigmeling Fdr - II	136.00	+	
		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	276.00	Error at Station/Auxiliary Consumption/Losses	3.00		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	56.20	+	Unit-I under shutdown
		Unit- II	91.30	220kV CHP - Birpara Fdr- II	56.30	+	
		Unit- III	90.71	220kV CHP - Malbase Fdr- III	128.10	+	
		Unit- IV	91.25	220kV CHP - Semtokha Fdr- IV	13.20	+	
		-	-	220kV Malbase - Birpara Fdr.	-5.10	-	
		-	-	66kV CHP - Chumdo Fdr.	9.31	+	
		-	-	66kV CHP - Gedu Fdr.	7.76	+	
		-	-	3x3MVA, 66/11kV TFR	1.64	+	
		Total	273.26	Error at Station/Auxiliary Consumption/Losses	0.75		
3	24MW BHP (U/S)	Unit- I	9.31	220kV BHP - Semtokha Fdr.	34.86	+	
		Unit- II	9.31	66kV BHP - Lobeyasa Fdr.	18.73	+	
		Total	18.62	220kV BHP - Tsirang Fdr.	-0.23	-	
	40MW BHP (L/S)	Unit- I	18.35	5MVA, 66/11kV TFR	1.07	+	
		Unit- II	17.61	30MVA ICT, 220/66kV			
Total	35.96	Error at Station/Auxiliary Consumption/Losses	0.15				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	54.86	+	Unit I Standby
		Unit-II	55.07	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	55.07	Error at Station/Auxiliary Consumption/Losses	0.21		
5	60MW KHP	Unit- I	13.95	132kV KHP - Nangkhor Fdr- I	47.30	+	
		Unit-II	14.08	132kV KHP - Kilikhar Fdr- II	9.10	+	
		Unit- III	15.12	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.95	132kV Gelephu - Salakati Fdr.	16.81	+	
		-	-	132kV Motanga - Rangia Fdr.	29.13	+	
		-	-	220kV Tsirang - Jigmeling	51.99	+	
		Total	57.10	Error at Station/Auxiliary Consumption/Losses	0.30		

Note: Load summary on October 23, 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	937.25	284.17	279.31	601.09	4.86
2	Eastern Grid	333.10	66.15	62.85	318.94	3.30
	Total	1,270.35	350.32	342.16	920.03	8.16

Note: Load Summary on October 23, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	256.10	256.10	281.60
2	Eastern Grid	56.76	56.76	62.24
	National	312.86	312.86	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.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 24, 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	89.44	400kV THP - Siliguri Fdr- I	159.67	+	Unit III & V under shutdown. 400kV THP_MAL line under maintenance.
		Unit- II	91.14	400kV THP - Siliguri Fdr- II	158.13	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	158.65	+	
		Unit- IV	149.62	400kV THP - Malbase Fdr- III	0.00	-	
		Unit- V	0.00	400kV Malbase - Siliguri	-29.64	-	
		Unit- VI	150.41	-	-	-	
		Total	480.61	Error at Station/Auxiliary Consumption/Losses	4.16		
2	720MW MHP	Unit-I	85.00	400kV MHP - Jigmeling Fdr - I	137.00	+	Unit-III & IV under shutdown.
		Unit-II	121.00	400kV MHP - Jigmeling Fdr - II	137.00	+	
		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			
		-	-	(Local Load)			
		Total	276.00	Error at Station/Auxiliary Consumption/Losses	2.00		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	53.67	+	CHP Unit-I under shutdown.
		Unit- II	76.96	220kV CHP - Birpara Fdr- II	53.85	+	
		Unit- III	78.52	220kV CHP - Malbase Fdr- III	130.95	+	
		Unit- IV	79.60	220kV CHP - Semtokha Fdr- IV	-14.55	-	
		-	-	220kV Malbase - Birpara Fdr.	-12.00	-	
		-	-	66kV CHP - Chumdo Fdr.	4.85	+	
		-	-	66kV CHP - Gedu Fdr.	7.52	+	
		-	-	3x3MVA, 66/11kV TFR	0.91	+	
		Total	235.08	Error at Station/Auxiliary Consumption/Losses	-2.12		
4	24MW BHP (U/S)	Unit- I	9.31	220kV BHP - Semtokha Fdr.	49.76	+	
		Unit- II	9.31	66kV BHP - Lobeyasa Fdr.	16.32	+	
		Total	18.62	220kV BHP - Tsirang Fdr.	-12.64	-	
	40MW BHP (L/S)	Unit- I	18.35	5MVA, 66/11kV TFR	0.34	+	
		Unit- II	17.61	30MVA ICT, 220/66kV			
Total	35.96	Error at Station/Auxiliary Consumption/Losses	0.80				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	54.90	+	Unit I Standby
		Unit-II	55.12	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	55.12	Error at Station/Auxiliary Consumption/Losses	0.22		
6	60MW KHP	Unit- I	13.51	132kV KHP - Nangkhor Fdr- I	47.45	+	
		Unit-II	13.68	132kV KHP - Kilikhar Fdr- II	5.68	+	
		Unit- III	13.32	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.25	132kV Gelephu - Salakati Fdr.	21.93	+	
		-	-	132kV Motanga - Rangia Fdr.	26.04	+	
		-	-	220kV Tsirang - Jigmeling	40.40	+	
		Total	53.76	Error at Station/Auxiliary Consumption/Losses	0.23		

Note: Load summary on October 24, 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	825.39	242.66	239.60	542.33	3.06
2	Eastern Grid	329.76	48.19	45.96	321.97	2.23
	Total	1,155.15	290.85	285.56	864.30	5.29

Note: Load Summary on October 24, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	236.29	257.70	281.60
2	Eastern Grid	38.08	56.76	62.24
	National	274.37	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.
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