

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 27, 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	172.00	400kV THP - Siliguri Fdr- I	129.00	+	Unit III & V under shutdown. 400kV THP_Sili IV line under maintenance.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	127.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	145.00	400kV THP - Malbase Fdr- III	191.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	100.00	+	
		Unit- VI	132.00	-	-	-	
		Total	449.00	Error at Station/Auxiliary Consumption/Losses	2.00		
2	720MW MHP	Unit-I	78.00	400kV MHP - Jigmeling Fdr - I	129.00	+	Unit-III under shutdown.
		Unit-II	110.00	400kV MHP - Jigmeling Fdr - II	128.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	69.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	257.00	Error at Station/Auxiliary Consumption/Losses	0.00		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	53.00	+	Unit-I under shutdown
		Unit- II	75.00	220kV CHP - Birpara Fdr- II	53.00	+	
		Unit- III	80.00	220kV CHP - Malbase Fdr- III	108.00	+	
		Unit- IV	80.00	220kV CHP - Semtokha Fdr- IV	9.00	+	
		-	-	220kV Malbase - Birpara Fdr.	3.00	+	
		-	-	66kV CHP - Chumdo Fdr.	1.40	+	
		-	-	66kV CHP - Gedu Fdr.	6.30	+	
		-	-	3x3MVA, 66/11kV TFR	1.60	+	
		Total	235.00	Error at Station/Auxiliary Consumption/Losses	2.70		
3	24MW BHP (U/S)	Unit- I	8.80	220kV BHP - Semtokha Fdr.	36.91	+	
		Unit- II	8.60	66kV BHP - Lobeysa Fdr.	17.49	+	
		Total	17.40	220kV BHP - Tsirang Fdr.	-2.88	-	
	40MW BHP (L/S)	Unit- I	16.40	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	17.30	30MVA ICT, 220/66kV			
Total	33.70	Error at Station/Auxiliary Consumption/Losses	1.34				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	52.19	+	Unit I Standby
		Unit-II	52.66	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	52.66	Error at Station/Auxiliary Consumption/Losses	0.47		
5	60MW KHP	Unit- I	13.20	132kV KHP - Nangkhor Fdr- I	42.00	+	
		Unit-II	13.10	132kV KHP - Kilikhar Fdr- II	9.90	+	
		Unit- III	13.10	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.20	132kV Gelephu - Salakati Fdr.	12.25	+	
		-	-	132kV Motanga - Rangia Fdr.	25.01	+	
		-	-	220kV Tsirang - Jigmeling	44.55	+	
		Total	52.60	Error at Station/Auxiliary Consumption/Losses	0.30		

Note: Load summary on October 27, 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	787.76	278.21	274.38	465.00	3.83
2	Eastern Grid	309.60	59.89	59.59	294.26	0.30
	Total	1,097.36	338.10	333.97	759.26	4.13

Note: Load Summary on October 27, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	280.58	280.58	281.60
2	Eastern Grid	51.57	53.18	62.24
	National	332.15	333.76	343.84

NOTES: ALL 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.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 28, 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	146.38	400kV THP - Siliguri Fdr- I	140.00	+	Unit-II standby. Unit III & V under shutdown. 400kV THP-SIL FDR IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	138.50	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	147.50	400kV THP - Malbase Fdr- III	158.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	121.00	+	
		Unit- VI	147.00	-	-	-	
		Total	440.88	Error at Station/Auxiliary Consumption/Losses	4.38		
2	720MW MHP	Unit-I	84.30	400kV MHP - Jigmeling Fdr - I	130.00	+	Unit-III under shutdown.
		Unit-II	103.83	400kV MHP - Jigmeling Fdr - II	130.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	72.65	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	260.78	Error at Station/Auxiliary Consumption/Losses	0.78		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	51.50	+	CHP Unit-I under shutdown.
		Unit- II	68.00	220kV CHP - Birpara Fdr- II	51.60	+	
		Unit- III	69.00	220kV CHP - Malbase Fdr- III	104.80	+	
		Unit- IV	72.00	220kV CHP - Semtokha Fdr- IV	-21.00	-	
		-	-	220kV Malbase - Birpara Fdr.	6.00	+	
		-	-	66kV CHP - Chumdo Fdr.	13.80	+	
		-	-	66kV CHP - Gedu Fdr.	3.30	+	
		-	-	3x3MVA, 66/11kV TFR	0.98	+	
		Total	209.00	Error at Station/Auxiliary Consumption/Losses	4.02		
4	24MW BHP (U/S)	Unit- I	8.80	220kV BHP - Semtokha Fdr.	46.85	+	
		Unit- II	8.50	66kV BHP - Lobeyasa Fdr.	13.78	+	
		Total	17.30	220kV BHP - Tsirang Fdr.	-10.97	-	
	40MW BHP (L/S)	Unit- I	16.10	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	17.00	30MVA ICT, 220/66kV			
Total	33.10	Error at Station/Auxiliary Consumption/Losses	-0.15				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	51.91	+	
		Unit-II	52.15	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	52.15	Error at Station/Auxiliary Consumption/Losses	0.24		
6	60MW KHP	Unit- I	13.46	132kV KHP - Nangkor Fdr- I	45.15	+	
		Unit-II	12.32	132kV KHP - Kilikhar Fdr- II	5.06	+	
		Unit- III	13.25	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	12.15	132kV Gelephu - Salakati Fdr.	19.00	+	
		-	-	132kV Motanga - Rangia Fdr.	19.58	+	
		-	-	220kV Tsirang - Jigmeling	39.30	+	
		Total	51.18	Error at Station/Auxiliary Consumption/Losses	0.57		

Note: Load summary on October 28, 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	752.43	204.53	196.04	508.60	8.49
2	Eastern Grid	311.96	52.68	51.33	298.58	1.35
	Total	1,064.39	257.21	247.37	807.18	9.84

Note: Load Summary on October 28, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	253.38	267.70	281.60
2	Eastern Grid	36.92	59.67	62.24
	National	290.30	327.37	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:
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