

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 29, 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	148.76	400kV THP - Siliguri Fdr- I	0.00	+	Unit- II & V under shutdown. Unit-III at standby. 400kV THP-SIL Fdr-I under shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	122.84	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	115.32	+	
		Unit- IV	140.18	400kV THP - Malbase Fdr- III	176.60	+	
		Unit- V	0.00	400kV Malbase - Siliguri	100.58	+	
		Unit- VI	129.79	-	-	-	
		Total	418.73	Error at Station/Auxiliary Consumption/Losses	3.97		
2	720MW MHP	Unit-I	81.29	400kV MHP - Jigmeling Fdr - I	117.45	+	Unit-II at standby. Unit-III under shutdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	117.81	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	154.90	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	236.19	Error at Station/Auxiliary Consumption/Losses	0.93		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	53.76	+	Unit-I under shutdown
		Unit- II	79.01	220kV CHP - Birpara Fdr- II	53.53	+	
		Unit- III	79.07	220kV CHP - Malbase Fdr- III	100.85	+	
		Unit- IV	79.94	220kV CHP - Semtokha Fdr- IV	11.47	+	
		-	-	220kV Malbase - Birpara Fdr.	10.11	+	
		-	-	66kV CHP - Chumdo Fdr.	10.78	+	
		-	-	66kV CHP - Gedu Fdr.	5.49	+	
		-	-	3x3MVA, 66/11kV TFR	1.47	+	
		Total	238.02	Error at Station/Auxiliary Consumption/Losses	0.67		
3	24MW BHP (U/S)	Unit- I	8.03	220kV BHP - Semtokha Fdr.	32.92	+	
		Unit- II	8.03	66kV BHP - Lobeysa Fdr.	16.59	+	
		Total	16.06	220kV BHP - Tsirang Fdr.	-2.18	-	
	40MW BHP (L/S)	Unit- I	16.26	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	15.62	30MVA ICT, 220/66kV			
Total	31.88	Error at Station/Auxiliary Consumption/Losses	0.07				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	48.93	+	Unit-I under Standby
		Unit-II	49.17	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	49.17	Error at Station/Auxiliary Consumption/Losses	0.24		
5	60MW KHP	Unit- I	16.01	132kV KHP - Nangkhor Fdr- I	38.18	+	Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.45	+	
		Unit- III	16.14	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	15.31	132kV Gelephu - Salakati Fdr.	13.83	+	
		-	-	132kV Motanga - Rangia Fdr.	18.98	+	
		-	-	220kV Tsirang - Jigmeling	44.38	+	
		Total	47.46	Error at Station/Auxiliary Consumption/Losses	0.33		

Note: Load summary on October 29, 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	753.86	253.34	248.53	456.14	4.81
2	Eastern Grid	283.65	59.96	58.70	268.07	1.26
	Total	1,037.51	313.30	307.23	724.21	6.07

Note: Load Summary on October 29, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	268.28	268.28	281.60
2	Eastern Grid	52.91	57.70	62.24
	National	321.19	325.98	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 30, 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	147.21	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II standby. Unit III & V under shutdown. 400kV THP-SIL FDR IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	126.89	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	120.23	+	
		Unit- IV	140.14	400kV THP - Malbase Fdr- III	163.11	+	
		Unit- V	0.00	400kV Malbase - Siliguri	111.01	+	
		Unit- VI	130.36	-	-	-	
		Total	417.71	Error at Station/Auxiliary Consumption/Losses	7.48		
2	720MW MHP	Unit-I	123.00	400kV MHP - Jigmeling Fdr - I	122.90	+	Unit-III under shutdown. Unit-II Standby
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	122.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	121.60	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
Total	244.60	Error at Station/Auxiliary Consumption/Losses	-0.30				
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	44.58	+	CHP Unit-I under shutdown.
		Unit- II	67.29	220kV CHP - Birpara Fdr- II	44.56	+	
		Unit- III	65.07	220kV CHP - Malbase Fdr- III	105.55	+	
		Unit- IV	65.17	220kV CHP - Semtokha Fdr- IV	-11.22	-	
		-	-	220kV Malbase - Birpara Fdr.	-7.46	-	
		-	-	66kV CHP - Chumdo Fdr.	6.99	+	
		-	-	66kV CHP - Gedu Fdr.	5.98	+	
		-	-	3x3MVA, 66/11kV TFR	0.97	+	
Total	197.53	Error at Station/Auxiliary Consumption/Losses	0.12				
4	24MW BHP (U/S)	Unit- I	8.01	220kV BHP - Semtokha Fdr.	44.55	+	
		Unit- II	8.01	66kV BHP - Lobeyasa Fdr.	14.17	+	
		Total	16.02	220kV BHP - Tsirang Fdr.	-11.00	-	
	40MW BHP (L/S)	Unit- I	16.36	5MVA, 66/11kV TFR	0.61	+	
		Unit- II	15.70	30MVA ICT, 220/66kV			
Total	32.06	Error at Station/Auxiliary Consumption/Losses	-0.25				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	49.42	+	Unit-I under Standby
		Unit-II	49.66	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	49.66	Error at Station/Auxiliary Consumption/Losses	0.24		
6	60MW KHP	Unit- I	15.20	132kV KHP - Nangkor Fdr- I	41.75	+	Unit-II standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.15	+	
		Unit- III	16.08	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	15.11	132kV Gelephu - Salakati Fdr.	15.79	+	
		-	-	132kV Motanga - Rangia Fdr.	15.22	+	
		-	-	220kV Tsirang - Jigmeling	36.12	+	
		Total	46.39	Error at Station/Auxiliary Consumption/Losses	0.29		

Note: Load summary on October 30, 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	712.98	237.05	229.46	439.81	7.59
2	Eastern Grid	290.99	51.20	51.21	275.91	-0.01
	Total	1,003.97	288.25	280.67	715.72	7.58

Note: Load Summary on October 30, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	236.66	270.62	281.60
2	Eastern Grid	38.95	53.75	62.24
	National	275.61	324.37	343.84

NOTES:

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