

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 3, 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	140.34	400kV THP - Siliguri Fdr- I	0.00		Unit II & V under shutdown. Unit-III at standby 400kV THP_SILI 1 line under antitheft charge.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	128.37	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	122.50	+	
		Unit- IV	139.83	400kV THP - Malbase Fdr- III	190.96	+	
		Unit- V	0.00	400kV Malbase - Siliguri	105.04	+	
		Unit- VI	168.72	-	-	-	
		Total	448.89	Error at Station/Auxiliary Consumption/Losses	7.06		
2	720MW MHP	Unit-I	82.00	400kV MHP - Jigmeling Fdr - I	133.00	+	Unit II under break down & Unit III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	90.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	141.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	223.00	Error at Station/Auxiliary Consumption/Losses	0.00		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	42.65	+	Unit-I under shutdown
		Unit- II	73.90	220kV CHP - Birpara Fdr- II	42.54	+	
		Unit- III	71.81	220kV CHP - Malbase Fdr- III	89.66	+	
		Unit- IV	73.37	220kV CHP - Semtokha Fdr- IV	24.99	+	
		-	-	220kV Malbase - Birpara Fdr.	1.92	+	
		-	-	66kV CHP - Chumdo Fdr.	12.48	+	
		-	-	66kV CHP - Gedu Fdr.	4.86	+	
		Total	219.08	Error at Station/Auxiliary Consumption/Losses	0.31		
3	24MW BHP (U/S)	Unit- I	7.33	220kV BHP - Semtokha Fdr.	24.66	+	
		Unit- II	7.33	66kV BHP - Lobeysa Fdr.	16.68	+	
		Total	14.66	220kV BHP - Tsirang Fdr.	1.54	+	
	40MW BHP (L/S)	Unit- I	14.76	5MVA, 66/11kV TFR	0.66	+	
		Unit- II	14.17	30MVA ICT, 220/66kV			
Total	28.93	Error at Station/Auxiliary Consumption/Losses	0.05				
4	126MW DHPC	Unit-I	43.40	220kV DHPC - Tsirang Fdr.	43.13	+	Unit II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	43.40	Error at Station/Auxiliary Consumption/Losses	0.27		
5	60MW KHP	Unit- I	13.08	132kV KHP - Nangkhor Fdr- I	32.63	+	Unit-IV Standby
		Unit-II	13.17	132kV KHP - Kilikhar Fdr- II	8.09	+	
		Unit- III	15.26	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	7.69	+	
		-	-	132kV Motanga - Rangia Fdr.	18.00	+	
		-	-	220kV Tsirang - Jigmeling	41.70	+	
		Total	41.51	Error at Station/Auxiliary Consumption/Losses	0.19		

Note: Load summary on November 03, 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	754.96	270.24	262.55	443.02	7.69
2	Eastern Grid	264.51	57.52	57.33	248.69	0.19
	Total	1,019.47	327.76	319.88	691.71	7.88

Note: Load Summary on November 03, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	243.24	243.24	281.60
2	Eastern Grid	47.32	51.76	62.24
	National	290.56	295.00	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:	November 4, 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	98.89	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II & V under shutdown. Unit-III at standby. 400kV THP_SILI I under ideal charge.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	105.50	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	98.75	+	
		Unit- IV	90.16	400kV THP - Malbase Fdr- III	148.22	+	
		Unit- V	0.00	400kV Malbase - Siliguri	88.75	+	
		Unit- VI	169.40	-	-	-	
		Total	358.45	Error at Station/Auxiliary Consumption/Losses	5.98		
2	720MW MHP	Unit-I	83.30	400kV MHP - Jigmeling Fdr - I	113.25	+	Unit II under break down & Unit III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	113.38	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	143.80	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
Total	227.10	Error at Station/Auxiliary Consumption/Losses	0.47				
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	35.71	+	CHP Unit-I under shutdownn.
		Unit- II	59.27	220kV CHP - Birpara Fdr- II	35.60	+	
		Unit- III	61.21	220kV CHP - Malbase Fdr- III	103.76	+	
		Unit- IV	60.13	220kV CHP - Semtokha Fdr- IV	-8.09	-	
		-	-	220kV Malbase - Birpara Fdr.	-20.93	-	
		-	-	66kV CHP - Chumdo Fdr.	6.71	+	
		-	-	66kV CHP - Gedu Fdr.	5.31	+	
		-	-	3x3MVA, 66/11kV TFR	0.99	+	
Total	180.61	Error at Station/Auxiliary Consumption/Losses	0.62				
4	24MW BHP (U/S)	Unit- I	7.21	220kV BHP - Semtokha Fdr.	39.53	+	
		Unit- II	7.21	66kV BHP - Lobeysa Fdr.	13.94	+	
		Total	14.42	220kV BHP - Tsirang Fdr.	-10.26	-	
	40MW BHP (L/S)	Unit- I	14.70	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	14.10	30MVA ICT, 220/66kV			
		Total	28.80	Error at Station/Auxiliary Consumption/Losses	-0.39		
5	126MW DHPC	Unit-I	44.39	220kV DHPC - Tsirang Fdr.	43.98	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	44.39	Error at Station/Auxiliary Consumption/Losses	0.41		
6	60MW KHP	Unit- I	13.52	132kV KHP - Nangkhon Fdr- I	38.14	+	Unit-IV at Standby
		Unit-II	13.49	132kV KHP - Kilikhar Fdr- II	3.62	+	
		Unit- III	15.20	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	9.91	+	
		-	-	132kV Motanga - Rangia Fdr.	6.16	+	
		-	-	220kV Tsirang - Jigmeling	32.44	+	
		Total	42.21	Error at Station/Auxiliary Consumption/Losses	0.05		

Note: Load summary on November 04, 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	626.67	250.85	244.23	343.38	6.62
2	Eastern Grid	269.31	59.05	58.53	242.70	0.52
	Total	895.98	309.90	302.76	586.08	7.14

Note: Load Summary on November 04, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	221.98	259.17	293.93
2	Eastern Grid	34.87	42.93	62.30
	National	256.85	302.10	356.23

NOTES: EAST load 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.