

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 1, 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	148.34	400kV THP - Siliguri Fdr- I	0.00		Unit II & V under shutdown. Unit-III standby 400kV THP_SILI 1 line under maintenance & 400kV THP_SIL II under maintenance
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	182.91	+	
		Unit- IV	139.08	400kV THP - Malbase Fdr- III	268.91	+	
		Unit- V	0.00	400kV Malbase - Siliguri	161.53	+	
		Unit- VI	170.70	-	-	-	
		Total	458.12	Error at Station/Auxiliary Consumption/Losses	6.30		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		TOTAL UNITS SHUTDOWN
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00		
		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	0.00	Error at Station/Auxiliary Consumption/Losses	0.00		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	47.71	+	Unit-I under shutdown
		Unit- II	71.82	220kV CHP - Birpara Fdr- II	47.60	+	
		Unit- III	71.54	220kV CHP - Malbase Fdr- III	79.84	+	
		Unit- IV	71.70	220kV CHP - Semtokha Fdr- IV	20.42	+	
		-	-	220kV Malbase - Birpara Fdr.	16.20	+	
		-	-	66kV CHP - Chumdo Fdr.	11.40	+	
		-	-	66kV CHP - Gedu Fdr.	5.97	+	
		-	-	3x3MVA, 66/11kV TFR	1.43	+	
		Total	215.06	Error at Station/Auxiliary Consumption/Losses	0.69		
3	24MW BHP (U/S)	Unit- I	7.60	220kV BHP - Semtokha Fdr.	24.45	+	
		Unit- II	7.60	66kV BHP - Lobeysa Fdr.	15.70	+	
		Total	15.20	220kV BHP - Tsirang Fdr.	4.99	+	
	40MW BHP (L/S)	Unit- I	15.55	5MVA, 66/11kV TFR	0.58	+	
		Unit- II	14.96	30MVA ICT, 220/66kV			
Total	30.51	Error at Station/Auxiliary Consumption/Losses	0.01				
4	126MW DHPC	Unit-I	47.37	220kV DHPC - Tsirang Fdr.	47.14	+	Unit II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	47.37	Error at Station/Auxiliary Consumption/Losses	0.23		
5	60MW KHP	Unit- I	14.25	132kV KHP - Nangkhor Fdr- I	35.11	+	Unit-IV Standby
		Unit-II	14.22	132kV KHP - Kilikhar Fdr- II	8.09	+	
		Unit- III	15.31	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	11.32	+	
		-	-	132kV Motanga - Rangia Fdr.	18.74	+	
		-	-	220kV Tsirang - Jigmeling	49.68	+	
		Total	43.78	Error at Station/Auxiliary Consumption/Losses	0.18		

Note: Load summary on November 01, 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	766.26	260.63	253.42	455.95	7.21
2	Eastern Grid	43.78	63.40	63.22	30.06	0.18
	Total	810.04	324.03	316.64	486.01	7.39

Note: Load Summary on November 01, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	212.52	260.27	293.93
2	Eastern Grid	44.20	56.26	62.30
	National	256.72	316.53	356.23

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 2, 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	129.93	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II & V under shutdown. Unit-III under standby.400kV THP_SILI I line under maintenance. THP_SILI II under emergency shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	0.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	148.54	+	
		Unit- IV	139.69	400kV THP - Malbase Fdr- III	216.09	+	
		Unit- V	0.00	400kV Malbase - Siliguri	132.75	+	
		Unit- VI	100.08	-	-	-	
		Total	369.70	Error at Station/Auxiliary Consumption/Losses	5.07		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00	+	Total Shutdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+	
		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	0.00	Error at Station/Auxiliary Consumption/Losses	0.00		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	42.08	+	CHP Unit-I under shutdownn.
		Unit- II	63.15	220kV CHP - Birpara Fdr- II	41.79	+	
		Unit- III	63.80	220kV CHP - Malbase Fdr- III	93.76	+	
		Unit- IV	62.09	220kV CHP - Semtokha Fdr- IV	-3.75	-	
		-	-	220kV Malbase - Birpara Fdr.	-5.00	-	
		-	-	66kV CHP - Chumdo Fdr.	7.61	+	
		-	-	66kV CHP - Gedu Fdr.	5.74	+	
		Total	189.04	Error at Station/Auxiliary Consumption/Losses	0.77		
4	24MW BHP (U/S)	Unit- I	7.48	220kV BHP - Semtokha Fdr.	38.33	+	
		Unit- II	7.48	66kV BHP - Lobeyasa Fdr.	13.82	+	
		Total	14.96	220kV BHP - Tsirang Fdr.	-7.19	-	
	40MW BHP (L/S)	Unit- I	15.40	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	14.72	30MVA ICT, 220/66kV			
		Total	30.12	Error at Station/Auxiliary Consumption/Losses	-0.31		
5	126MW DHPC	Unit-I	46.11	220kV DHPC - Tsirang Fdr.	45.78	+	Unit-II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	46.11	Error at Station/Auxiliary Consumption/Losses	0.33		
6	60MW KHP	Unit- I	14.31	132kV KHP - Nangkhor Fdr- I	39.28	+	Unit-IV Standby
		Unit-II	14.30	132kV KHP - Kilikhar Fdr- II	4.03	+	
		Unit- III	15.02	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	13.51	+	
		-	-	132kV Motanga - Rangia Fdr.	15.00	+	
		-	-	220kV Tsirang - Jigmeling	36.88	+	
		Total	43.63	Error at Station/Auxiliary Consumption/Losses	0.02		

Note: Load summary on November 02, 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	649.93	252.89	247.03	360.16	5.86
2	Eastern Grid	43.63	52.00	51.98	28.51	0.02
	Total	693.56	304.89	299.01	388.67	5.88

Note: Load Summary on November 02, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.09	261.71	293.93
2	Eastern Grid	36.67	53.96	62.30
	National	269.76	315.67	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.