

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	November 1, 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	129.28	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II & V under shutdown. Unit-III under standby.400kV THP_SILI I line under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	113.58	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	107.17	+	
		Unit- IV	139.68	400kV THP - Malbase Fdr- III	160.10	+	
		Unit- V	0.00	400kV Malbase - Siliguri	95.91	+	
		Unit- VI	120.16	-	-	-	
		Total	389.12	Error at Station/Auxiliary Consumption/Losses	8.27		
2	720MW MHP	Unit-I	81.80	400kV MHP - Jigmeling Fdr - I	136.71	+	Unit- IV Standby & Unit III under break down
		Unit-II	192.00	400kV MHP - Jigmeling Fdr - II	136.71	+	
		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	273.80	Error at Station/Auxiliary Consumption/Losses	0.38		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	42.23	+	CHP Unit-I under shutdownn.
		Unit- II	63.75	220kV CHP - Birpara Fdr- II	42.21	+	
		Unit- III	64.00	220kV CHP - Malbase Fdr- III	101.69	+	
		Unit- IV	63.17	220kV CHP - Semtokha Fdr- IV	-9.87	-	
		-	-	220kV Malbase - Birpara Fdr.	-8.84	-	
		-	-	66kV CHP - Chumdo Fdr.	7.14	+	
		-	-	66kV CHP - Gedu Fdr.	5.91	+	
		Total	190.92	Error at Station/Auxiliary Consumption/Losses	0.66		
4	24MW BHP (U/S)	Unit- I	7.66	220kV BHP - Semtokha Fdr.	43.50	+	
		Unit- II	7.66	66kV BHP - Lobeyasa Fdr.	14.02	+	
		Total	15.32	220kV BHP - Tsirang Fdr.	-11.76	-	
	40MW BHP (L/S)	Unit- I	15.53	5MVA, 66/11kV TFR	0.31	+	
		Unit- II	14.96	30MVA ICT, 220/66kV			
Total	30.49	Error at Station/Auxiliary Consumption/Losses	-0.26				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	46.12	+	
		Unit-II	46.35	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	46.35	Error at Station/Auxiliary Consumption/Losses	0.23		
6	60MW KHP	Unit- I	14.38	132kV KHP - Nangkhon Fdr- I	38.20	+	Unit-IV Standby
		Unit-II	14.37	132kV KHP - Kilikhar Fdr- II	4.22	+	
		Unit- III	14.33	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	16.20	+	
		-	-	132kV Motanga - Rangia Fdr.	16.10	+	
		-	-	220kV Tsirang - Jigmeling	32.22	+	
		Total	43.08	Error at Station/Auxiliary Consumption/Losses	0.36		

Note: Load summary on November 01, 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	672.20	247.72	238.82	392.26	8.90
2	Eastern Grid	316.88	43.38	42.64	305.72	0.74
	Total	989.08	291.10	281.46	697.98	9.64

Note: Load Summary on November 01, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs 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: 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.