

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 26, 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	186.25	400kV THP - Siliguri Fdr- I	254.21	+	
		Unit- II	187.85	400kV THP - Siliguri Fdr- II	253.26	+	
		Unit- III	187.66	400kV THP - Siliguri Fdr- IV	247.24	+	
		Unit- IV	187.19	400kV THP - Malbase Fdr- III	350.71	+	
		Unit- V	186.71	400kV Malbase - Siliguri	217.28	+	
		Unit- VI	186.00	-	-	-	
		Total	1,121.66	Error at Station/Auxiliary Consumption/Losses	16.24		
2	720MW MHP	Unit-I	190.60	400kV MHP - Jigmeling Fdr - I	192.00	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	188.60	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	190.70	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	381.30	Error at Station/Auxiliary Consumption/Losses	0.70		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	78.25	+	Unit-I tripped since 23/08/2019.
		Unit- II	91.38	220kV CHP - Birpara Fdr- II	78.10	+	
		Unit- III	91.80	220kV CHP - Malbase Fdr- III	95.69	+	
		Unit- IV	91.85	220kV CHP - Semtokha Fdr- IV	7.39	+	
		-	-	220kV Malbase - Birpara Fdr.	54.49	+	
		-	-	66kV CHP - Chumdo Fdr.	5.98	+	
		-	-	66kV CHP - Gedu Fdr.	6.95	+	
		-	-	3x3MVA, 66/11kV TFR	1.27	+	
Total	275.03	Error at Station/Auxiliary Consumption/Losses	1.40				
3	24MW BHP (U/S)	Unit- I	8.28	220kV BHP - Semtokha Fdr.	25.46	+	
		Unit- II	8.28	66kV BHP - Lobeyasa Fdr.	16.26	+	
		Total	16.56	220kV BHP - Tsirang Fdr.	5.00	+	
	40MW BHP (L/S)	Unit- I	15.82	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	15.20	30MVA ICT, 220/66kV			
Total	31.02	Error at Station/Auxiliary Consumption/Losses	0.03				
4	126MW DHPC	Unit-I	25.33	220kV DHPC - Tsirang Fdr.	68.12	+	
		Unit-II	43.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	68.51	Error at Station/Auxiliary Consumption/Losses	0.39		
5	60MW KHP	Unit- I	16.53	132kV KHP - Nangkor Fdr- I	56.13	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	9.20	+	
		Unit- III	16.46	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.53	132kV Gelephu - Salakati Fdr.	29.66	+	
		-	-	132kV Motanga - Rangia Fdr.	43.98	+	
		-	-	220kV Tsirang - Jigmeling	70.32	+	
		Total	66.02	Error at Station/Auxiliary Consumption/Losses	0.19		

Note: Load summary on August 26, 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	1,512.78	259.63	241.63	1,182.83	18.00
2	Eastern Grid	447.32	63.40	62.51	454.24	0.89
	Total	1,960.10	323.03	304.14	1,637.07	18.89

Note: Load Summary on August 26, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	247.57	247.57	259.44
2	Eastern Grid	46.48	46.75	55.98
	National	294.05	294.32	315.42

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:	August 27, 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	187.00	400kV THP - Siliguri Fdr- I	263.42	+	
		Unit- II	188.20	400kV THP - Siliguri Fdr- II	259.89	+	
		Unit- III	187.24	400kV THP - Siliguri Fdr- IV	254.01	+	
		Unit- IV	187.57	400kV THP - Malbase Fdr- III	324.21	+	
		Unit- V	186.52	400kV Malbase - Siliguri	233.21	+	
		Unit- VI	184.95	-	-	-	
		Total	1,121.48	Error at Station/Auxiliary Consumption/Losses	19.95		
2	720MW MHP	Unit-I	190.70	400kV MHP - Jigmeling Fdr - I	191.90	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	188.40	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	190.80	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	381.50	Error at Station/Auxiliary Consumption/Losses	1.20		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	81.42	+	CHP Unit-I under breakdown.
		Unit- II	91.38	220kV CHP - Birpara Fdr- II	81.41	+	
		Unit- III	91.78	220kV CHP - Malbase Fdr- III	119.35	+	
		Unit- IV	91.66	220kV CHP - Semtokha Fdr- IV	-17.87	-	
		-	-	220kV Malbase - Birpara Fdr.	41.39	+	
		-	-	66kV CHP - Chumdo Fdr.	2.21	+	
		-	-	66kV CHP - Gedu Fdr.	6.49	+	
		Total	274.82	Error at Station/Auxiliary Consumption/Losses	1.10		
4	24MW BHP (U/S)	Unit- I	8.10	220kV BHP - Semtokha Fdr.	37.64	+	
		Unit- II	8.10	66kV BHP - Lobeyasa Fdr.	12.89	+	
		Total	16.20	220kV BHP - Tsirang Fdr.	-4.43	-	
	40MW BHP (L/S)	Unit- I	15.41	5MVA, 66/11kV TFR	0.36	+	
		Unit- II	14.80	30MVA ICT, 220/66kV			
		Total	30.21	Error at Station/Auxiliary Consumption/Losses	-0.05		
5	126MW DHPC	Unit-I	24.31	220kV DHPC - Tsirang Fdr.	65.54	+	
		Unit-II	41.55	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	65.86	Error at Station/Auxiliary Consumption/Losses	0.32		
6	60MW KHP	Unit- I	16.33	132kV KHP - Nangkhor Fdr- I	62.16	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.45	132kV KHP - Kilikhar Fdr- II	3.10	+	
		Unit- III	16.44	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.56	132kV Gelephu - Salakati Fdr.	28.16	+	
		-	-	132kV Motanga - Rangia Fdr.	50.49	+	
		-	-	220kV Tsirang - Jigmeling	59.17	+	
		Total	65.78	Error at Station/Auxiliary Consumption/Losses	0.12		

Note: Load summary on August 27, 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	1,508.57	234.65	213.33	1,214.75	21.32
2	Eastern Grid	447.28	47.50	46.18	458.95	1.32
	Total	1,955.85	282.15	259.51	1,673.70	22.64

Note: Load Summary on August 27, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.60	246.50	259.44
2	Eastern Grid	27.49	51.29	55.98
	National	239.09	297.79	315.42

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.