

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	August 30, 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	139.64	400kV THP - Siliguri Fdr- I	182.50	+	
		Unit- II	101.48	400kV THP - Siliguri Fdr- II	180.64	+	
		Unit- III	186.23	400kV THP - Siliguri Fdr- IV	174.68	+	
		Unit- IV	120.62	400kV THP - Malbase Fdr- III	280.68	+	
		Unit- V	98.88	400kV Malbase - Siliguri	148.78	+	
		Unit- VI	185.60	-	-	-	
		Total	832.45	Error at Station/Auxiliary Consumption/Losses	13.95		
2	720MW MHP	Unit-I	190.40	400kV MHP - Jigmeling Fdr - I	192.50	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	189.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	382.90	Error at Station/Auxiliary Consumption/Losses	1.30		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	76.76	+	Unit-I tripped since 23/08/2019.
		Unit- II	90.62	220kV CHP - Birpara Fdr- II	76.69	+	
		Unit- III	91.46	220kV CHP - Malbase Fdr- III	92.22	+	
		Unit- IV	91.61	220kV CHP - Semtokha Fdr- IV	9.59	+	
		-	-	220kV Malbase - Birpara Fdr.	54.73	+	
		-	-	66kV CHP - Chumdo Fdr.	14.72	+	
		-	-	66kV CHP - Gedu Fdr.	3.81	+	
		-	-	3x3MVA, 66/11kV TFR	1.17	+	
Total	273.69	Error at Station/Auxiliary Consumption/Losses	-1.27				
3	24MW BHP (U/S)	Unit- I	7.76	220kV BHP - Semtokha Fdr.	15.17	+	
		Unit- II	7.76	66kV BHP - Lobeyasa Fdr.	14.37	+	
		Total	15.52	220kV BHP - Tsirang Fdr.	14.87	+	
	40MW BHP (L/S)	Unit- I	16.59	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	14.46	30MVA ICT, 220/66kV			
Total	31.05	Error at Station/Auxiliary Consumption/Losses	1.44				
4	126MW DHPC	Unit-I	25.31	220kV DHPC - Tsirang Fdr.	58.03	+	
		Unit-II	33.15	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	58.46	Error at Station/Auxiliary Consumption/Losses	0.43		
5	60MW KHP	Unit- I	16.41	132kV KHP - Nangkhor Fdr- I	56.46	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.46	132kV KHP - Kilikhar Fdr- II	8.53	+	
		Unit- III	16.62	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.62	132kV Gelephu - Salakati Fdr.	25.47	+	
		-	-	132kV Motanga - Rangia Fdr.	44.50	+	
		-	-	220kV Tsirang - Jigmeling	70.37	+	
		Total	66.11	Error at Station/Auxiliary Consumption/Losses	0.62		

Note: Load summary on August 30, 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	1,211.17	246.02	231.47	894.78	14.55
2	Eastern Grid	449.01	67.81	65.89	451.57	1.92
	Total	1,660.18	313.83	297.36	1,346.35	16.47

Note: Load Summary on August 30, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.94	244.82	259.44
2	Eastern Grid	47.35	47.35	55.98
	National	283.29	292.17	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 31, 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	185.13	400kV THP - Siliguri Fdr- I	264.47	+	
		Unit- II	185.78	400kV THP - Siliguri Fdr- II	262.46	+	
		Unit- III	188.02	400kV THP - Siliguri Fdr- IV	255.52	+	
		Unit- IV	186.09	400kV THP - Malbase Fdr- III	315.27	+	
		Unit- V	186.92	400kV Malbase - Siliguri	237.46	+	
		Unit- VI	186.68	-	-	-	
		Total	1,118.62	Error at Station/Auxiliary Consumption/Losses	20.90		
2	720MW MHP	Unit-I	190.50	400kV MHP - Jigmeling Fdr - I	192.10	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	188.20	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	383.00	Error at Station/Auxiliary Consumption/Losses	2.70		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	95.22	+	CHP Unit-I under breakdown.
		Unit- II	90.62	220kV CHP - Birpara Fdr- II	95.37	+	
		Unit- III	91.46	220kV CHP - Malbase Fdr- III	141.46	+	
		Unit- IV	91.61	220kV CHP - Semtokha Fdr- IV	-78.79	-	
		-	-	220kV Malbase - Birpara Fdr.	47.45	+	
		-	-	66kV CHP - Chumdo Fdr.	10.73	+	
		-	-	66kV CHP - Gedu Fdr.	5.45	+	
		Total	273.69	Error at Station/Auxiliary Consumption/Losses	3.33		
4	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	91.78	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	16.62	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-42.86	-	
	40MW BHP (L/S)	Unit- I	16.59	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	20.16	30MVA ICT, 220/66kV			
		Total	36.75	Error at Station/Auxiliary Consumption/Losses	-5.56		
5	126MW DHPC	Unit-I	63.54	220kV DHPC - Tsirang Fdr.	126.25	+	
		Unit-II	63.21	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.75	Error at Station/Auxiliary Consumption/Losses	0.50		
6	60MW KHP	Unit- I	16.51	132kV KHP - Nangkor Fdr- I	61.67	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.63	132kV KHP - Kilikhar Fdr- II	4.06	+	
		Unit- III	16.57	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.54	132kV Gelephu - Salakati Fdr.	49.92	+	
		-	-	132kV Motanga - Rangia Fdr.	40.30	+	
		-	-	220kV Tsirang - Jigmeling	79.79	+	
		Total	66.25	Error at Station/Auxiliary Consumption/Losses	0.02		

Note: Load summary on August 31, 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	1,579.41	241.67	222.50	1,257.95	19.17
2	Eastern Grid	449.25	58.52	55.80	470.52	2.72
	Total	2,028.66	300.19	278.30	1,728.47	21.89

Note: Load Summary on August 31, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	203.81	242.80	259.44
2	Eastern Grid	29.99	40.83	55.98
	National	233.80	283.63	315.42

NOTES:

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