

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 23, 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	119.00	400kV THP - Siliguri Fdr- I	183.49	+	
		Unit- II	118.64	400kV THP - Siliguri Fdr- II	180.48	+	
		Unit- III	187.36	400kV THP - Siliguri Fdr- IV	176.55	+	
		Unit- IV	80.07	400kV THP - Malbase Fdr- III	276.46	+	
		Unit- V	138.65	400kV Malbase - Siliguri	150.25	+	
		Unit- VI	186.72	-	-	-	
		Total	830.44	Error at Station/Auxiliary Consumption/Losses	13.46		
2	720MW MHP	Unit-I	186.39	400kV MHP - Jigmeling Fdr - I	188.00	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	184.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	187.60	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	373.99	Error at Station/Auxiliary Consumption/Losses	1.49		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	74.98	+	Unit-I tripped on rotor earth fault at 14:31 hrs.
		Unit- II	90.62	220kV CHP - Birpara Fdr- II	75.19	+	
		Unit- III	91.88	220kV CHP - Malbase Fdr- III	98.48	+	
		Unit- IV	91.70	220kV CHP - Semtokha Fdr- IV	10.58	+	
		-	-	220kV Malbase - Birpara Fdr.	47.54	+	
		-	-	66kV CHP - Chumdo Fdr.	5.85	+	
		-	-	66kV CHP - Gedu Fdr.	6.92	+	
		-	-	3x3MVA, 66/11kV TFR	1.17	+	
Total	274.20	Error at Station/Auxiliary Consumption/Losses	1.03				
3	24MW BHP (U/S)	Unit- I	8.47	220kV BHP - Semtokha Fdr.	20.74	+	
		Unit- II	8.47	66kV BHP - Lobeyasa Fdr.	15.46	+	
		Total	16.94	220kV BHP - Tsirang Fdr.	11.19	+	
	40MW BHP (L/S)	Unit- I	16.00	5MVA, 66/11kV TFR	0.77	+	
		Unit- II	15.30	30MVA ICT, 220/66kV			
Total	31.30	Error at Station/Auxiliary Consumption/Losses	0.08				
4	126MW DHPC	Unit-I	25.33	220kV DHPC - Tsirang Fdr.	68.09	+	
		Unit-II	43.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	68.51	Error at Station/Auxiliary Consumption/Losses	0.42		
5	60MW KHP	Unit- I	16.44	132kV KHP - Nangkor Fdr- I	55.78	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.37	132kV KHP - Kilikhar Fdr- II	9.23	+	
		Unit- III	16.44	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.53	132kV Gelephu - Salakati Fdr.	27.97	+	
		-	-	132kV Motanga - Rangia Fdr.	44.60	+	
		-	-	220kV Tsirang - Jigmeling	76.47	+	
		Total	65.78	Error at Station/Auxiliary Consumption/Losses	0.27		

Note: Load summary on August 23, 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	1,221.39	256.44	241.45	888.48	14.99
2	Eastern Grid	439.77	71.17	69.41	445.07	1.76
	Total	1,661.16	327.61	310.86	1,333.55	16.75

Note: Load Summary on August 23, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	253.47	253.47	259.44
2	Eastern Grid	48.49	48.49	55.98
	National	301.96	301.96	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 24, 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	185.78	400kV THP - Siliguri Fdr- I	262.56	+	
		Unit- II	184.09	400kV THP - Siliguri Fdr- II	260.31	+	
		Unit- III	187.51	400kV THP - Siliguri Fdr- IV	255.06	+	
		Unit- IV	187.36	400kV THP - Malbase Fdr- III	321.67	+	
		Unit- V	186.70	400kV Malbase - Siliguri	233.00	+	
		Unit- VI	186.00	-	-	-	
		Total	1,117.44	Error at Station/Auxiliary Consumption/Losses	17.84		
2	720MW MHP	Unit-I	186.57	400kV MHP - Jigmeling Fdr - I	187.90	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	183.80	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	187.44	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	374.01	Error at Station/Auxiliary Consumption/Losses	2.31		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	90.84	+	
		Unit- II	91.04	220kV CHP - Birpara Fdr- II	91.19	+	
		Unit- III	91.38	220kV CHP - Malbase Fdr- III	128.49	+	
		Unit- IV	91.32	220kV CHP - Semtokha Fdr- IV	-47.08	-	
		-	-	220kV Malbase - Birpara Fdr.	50.40	+	
		-	-	66kV CHP - Chumdo Fdr.	1.44	+	
		-	-	66kV CHP - Gedu Fdr.	6.48	+	
		-	-	3x3MVA, 66/11kV TFR	0.72	+	
Total	273.74	Error at Station/Auxiliary Consumption/Losses	1.66				
4	24MW BHP (U/S)	Unit- I	10.89	220kV BHP - Semtokha Fdr.	67.65	+	
		Unit- II	10.89	66kV BHP - Lobeyasa Fdr.	15.98	+	
		Total	21.78	220kV BHP - Tsirang Fdr.	-22.90	+	
	40MW BHP (L/S)	Unit- I	20.08	5MVA, 66/11kV TFR	0.91	+	
		Unit- II	19.26	30MVA ICT, 220/66kV			
		Total	39.34	Error at Station/Auxiliary Consumption/Losses	-0.52		
5	126MW DHPC	Unit-I	40.09	220kV DHPC - Tsirang Fdr.	100.77	+	
		Unit-II	61.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	101.25	Error at Station/Auxiliary Consumption/Losses	0.48		
6	60MW KHP	Unit- I	16.26	132kV KHP - Nangkor Fdr- I	60.67	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	15.93	132kV KHP - Kilikhar Fdr- II	3.97	+	
		Unit- III	16.28	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.17	132kV Gelephu - Salakati Fdr.	44.14	+	
		-	-	132kV Motanga - Rangia Fdr.	47.15	+	
		-	-	220kV Tsirang - Jigmeling	75.37	+	
		Total	64.64	Error at Station/Auxiliary Consumption/Losses	-0.50		

Note: Load summary on August 24, 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	1,553.55	234.82	215.36	1,243.36	19.46
2	Eastern Grid	438.65	51.03	49.22	462.99	1.81
	Total	1,992.20	285.85	264.58	1,706.35	21.27

Note: Load Summary on August 24, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	217.71	242.32	259.44
2	Eastern Grid	42.00	48.15	55.98
	National	259.71	290.47	315.42

NOTES:

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