

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 22, 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	188.93	400kV THP - Siliguri Fdr- I	223.78	+	
		Unit- II	99.95	400kV THP - Siliguri Fdr- II	222.70	+	
		Unit- III	187.13	400kV THP - Siliguri Fdr- IV	217.23	+	
		Unit- IV	187.20	400kV THP - Malbase Fdr- III	311.40	+	
		Unit- V	138.97	400kV Malbase - Siliguri	190.57	+	
		Unit- VI	186.56	-	-	-	
		Total	988.74	Error at Station/Auxiliary Consumption/Losses	13.63		
2	720MW MHP	Unit-I	185.80	400kV MHP - Jigmeling Fdr - I	331.00	+	Unit-II under shutdown since 15/08/2019. Unit-III under breakdown since 20/08/2019. 400kV Fdr-II on standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	146.80	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	332.60	Error at Station/Auxiliary Consumption/Losses	1.60		
2	336MW CHP	Unit- I	91.38	220kV CHP - Birpara Fdr- I	105.77	+	
		Unit- II	91.31	220kV CHP - Birpara Fdr- II	105.73	+	
		Unit- III	91.50	220kV CHP - Malbase Fdr- III	131.83	+	
		Unit- IV	92.21	220kV CHP - Semtokha Fdr- IV	6.64	+	
		-	-	220kV Malbase - Birpara Fdr.	73.27	+	
		-	-	66kV CHP - Chumdo Fdr.	5.47	+	
		-	-	66kV CHP - Gedu Fdr.	7.64	+	
		Total	366.40	Error at Station/Auxiliary Consumption/Losses	2.13		
3	24MW BHP (U/S)	Unit- I	8.79	220kV BHP - Semtokha Fdr.	25.50	+	
		Unit- II	8.79	66kV BHP - Lobeyasa Fdr.	16.45	+	
		Total	17.58	220kV BHP - Tsirang Fdr.	7.62	+	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	16.07	30MVA ICT, 220/66kV			
Total	36.37	Error at Station/Auxiliary Consumption/Losses	3.71				
4	126MW DHPC	Unit-I	26.31	220kV DHPC - Tsirang Fdr.	88.88	+	
		Unit-II	63.05	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	89.36	Error at Station/Auxiliary Consumption/Losses	0.48		
5	60MW KHP	Unit- I	16.39	132kV KHP - Nangkor Fdr- I	56.07	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.56	132kV KHP - Kilikhar Fdr- II	8.90	+	
		Unit- III	16.47	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.43	132kV Gelephu - Salakati Fdr.	27.09	+	
		-	-	132kV Motanga - Rangia Fdr.	46.12	+	
		-	-	220kV Tsirang - Jigmeling	76.22	+	
		Total	65.85	Error at Station/Auxiliary Consumption/Losses	0.38		

Note: Load summary on August 22, 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	1,498.45	283.18	263.23	1,139.05	19.95
2	Eastern Grid	398.45	70.46	68.48	404.21	1.98
	Total	1,896.90	353.64	331.71	1,543.26	21.93

Note: Load Summary on August 22, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	232.35	235.91	259.44
2	Eastern Grid	53.76	53.76	55.98
	National	286.11	289.67	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

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Date: August 23, 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	187.46	400kV THP - Siliguri Fdr- I	263.01	+	
		Unit- II	187.36	400kV THP - Siliguri Fdr- II	261.47	+	
		Unit- III	186.89	400kV THP - Siliguri Fdr- IV	253.87	+	
		Unit- IV	183.01	400kV THP - Malbase Fdr- III	318.84	+	
		Unit- V	184.93	400kV Malbase - Siliguri	233.66	+	
		Unit- VI	185.48	-	-	-	
		Total	1,115.13	Error at Station/Auxiliary Consumption/Losses	17.94		
2	720MW MHP	Unit-I	186.55	400kV MHP - Jigmeling Fdr - I	169.00	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	163.90	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	151.49	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	338.04	Error at Station/Auxiliary Consumption/Losses	5.14		
3	336MW CHP	Unit- I	90.83	220kV CHP - Birpara Fdr- I	107.87	+	
		Unit- II	91.67	220kV CHP - Birpara Fdr- II	107.51	+	
		Unit- III	91.33	220kV CHP - Malbase Fdr- III	153.24	+	
		Unit- IV	91.95	220kV CHP - Semtokha Fdr- IV	-14.07	-	
		-	-	220kV Malbase - Birpara Fdr.	58.45	+	
		-	-	66kV CHP - Chumdo Fdr.	1.73	+	
		-	-	66kV CHP - Gedu Fdr.	7.96	+	
		Total	365.78	Error at Station/Auxiliary Consumption/Losses	0.84		
4	24MW BHP (U/S)	Unit- I	9.10	220kV BHP - Semtokha Fdr.	34.16	+	
		Unit- II	8.80	66kV BHP - Lobeyasa Fdr.	13.11	+	
		Total	17.90	220kV BHP - Tsirang Fdr.	1.27	+	
	40MW BHP (L/S)	Unit- I	15.70	5MVA, 66/11kV TFR	0.51	+	
		Unit- II	16.60	30MVA ICT, 220/66kV			
		Total	32.30	Error at Station/Auxiliary Consumption/Losses	1.15		
5	126MW DHPC	Unit-I	15.23	220kV DHPC - Tsirang Fdr.	68.97	+	
		Unit-II	54.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	69.41	Error at Station/Auxiliary Consumption/Losses	0.44		
6	60MW KHP	Unit- I	16.42	132kV KHP - Nangkhor Fdr- I	60.27	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.61	132kV KHP - Kilikhar Fdr- II	4.48	+	
		Unit- III	16.63	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.26	132kV Gelephu - Salakati Fdr.	38.00	+	
		-	-	132kV Motanga - Rangia Fdr.	41.28	+	
		-	-	220kV Tsirang - Jigmeling	68.35	+	
		Total	65.92	Error at Station/Auxiliary Consumption/Losses	0.67		

Note: Load summary on August 23, 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	1,600.52	246.33	225.96	1,285.84	20.37
2	Eastern Grid	403.96	60.13	54.32	412.18	5.81
	Total	2,004.48	306.46	280.28	1,698.02	26.18

Note: Load Summary on August 23, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	228.79	253.57	259.44
2	Eastern Grid	35.22	48.49	55.98
	National	264.01	302.06	315.42

NOTES:

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