

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 17, 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	187.25	400kV THP - Siliguri Fdr- I	263.80	+	
		Unit- II	187.72	400kV THP - Siliguri Fdr- II	260.79	+	
		Unit- III	186.83	400kV THP - Siliguri Fdr- IV	252.44	+	
		Unit- IV	187.76	400kV THP - Malbase Fdr- III	333.19	+	
		Unit- V	187.24	400kV Malbase - Siliguri	227.64	+	
		Unit- VI	186.59	-	-	-	
		Total	1,123.39	Error at Station/Auxiliary Consumption/Losses	13.17		
2	720MW MHP	Unit-I	181.37	400kV MHP - Jigmeling Fdr - I	272.00	+	Unit-II under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	272.00	+	
		Unit-III	180.80	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	185.86	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	548.03	Error at Station/Auxiliary Consumption/Losses	4.03		
2	336MW CHP	Unit- I	91.57	220kV CHP - Birpara Fdr- I	117.35	+	
		Unit- II	91.15	220kV CHP - Birpara Fdr- II	117.36	+	
		Unit- III	91.41	220kV CHP - Malbase Fdr- III	138.52	+	
		Unit- IV	91.03	220kV CHP - Semtokha Fdr- IV	-21.83	-	
		-	-	220kV Malbase - Birpara Fdr.	86.34	+	
		-	-	66kV CHP - Chumdo Fdr.	4.12	+	
		-	-	66kV CHP - Gedu Fdr.	7.97	+	
		Total	365.16	Error at Station/Auxiliary Consumption/Losses	0.48		
3	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	50.53	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	18.42	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-4.86	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	20.68	30MVA ICT, 220/66kV			
Total	40.98	Error at Station/Auxiliary Consumption/Losses	0.18				
4	126MW DHPC	Unit-I	42.37	220kV DHPC - Tsirang Fdr.	105.13	+	
		Unit-II	63.22	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	105.59	Error at Station/Auxiliary Consumption/Losses	0.46		
5	60MW KHP	Unit- I	16.40	132kV KHP - Nangkor Fdr- I	58.42	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.53	132kV KHP - Kilikhar Fdr- II	6.77	+	
		Unit- III	16.63	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.45	132kV Gelephu - Salakati Fdr.	46.96	+	
		-	-	132kV Motanga - Rangia Fdr.	49.66	+	
		-	-	220kV Tsirang - Jigmeling	90.85	+	
		Total	66.01	Error at Station/Auxiliary Consumption/Losses	0.22		

Note: Load summary on August 17, 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	1,658.72	242.15	228.22	1,325.72	13.93
2	Eastern Grid	614.04	64.27	60.02	640.62	4.25
	Total	2,272.76	306.42	288.24	1,966.34	18.18

Note: Load Summary on August 17, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.66	251.66	259.44
2	Eastern Grid	46.38	49.90	55.98
	National	298.04	301.56	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 18, 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	186.65	400kV THP - Siliguri Fdr- I	268.09	+	
		Unit- II	184.46	400kV THP - Siliguri Fdr- II	265.33	+	
		Unit- III	187.04	400kV THP - Siliguri Fdr- IV	261.50	+	
		Unit- IV	186.60	400kV THP - Malbase Fdr- III	308.96	+	
		Unit- V	187.92	400kV Malbase - Siliguri	242.73	+	
		Unit- VI	185.79	-	-	-	
		Total	1,118.46	Error at Station/Auxiliary Consumption/Losses	14.58		
2	720MW MHP	Unit-I	186.38	400kV MHP - Jigmeling Fdr - I	274.54	+	Unit-II under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	274.54	+	
		Unit-III	181.27	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	181.68	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	549.33	Error at Station/Auxiliary Consumption/Losses	0.25		
3	336MW CHP	Unit- I	91.53	220kV CHP - Birpara Fdr- I	116.32	+	
		Unit- II	91.09	220kV CHP - Birpara Fdr- II	116.05	+	
		Unit- III	91.36	220kV CHP - Malbase Fdr- III	163.46	+	
		Unit- IV	91.80	220kV CHP - Semtokha Fdr- IV	-41.48	-	
		-	-	220kV Malbase - Birpara Fdr.	65.11	+	
		-	-	66kV CHP - Chumdo Fdr.	1.63	+	
		-	-	66kV CHP - Gedu Fdr.	7.41	+	
		Total	365.78	Error at Station/Auxiliary Consumption/Losses	1.50		
4	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	62.72	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	16.04	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-13.94	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.49	+	
		Unit- II	20.70	30MVA ICT, 220/66kV			
		Total	41.00	Error at Station/Auxiliary Consumption/Losses	-0.71		
5	126MW DHPC	Unit-I	36.45	220kV DHPC - Tsirang Fdr.	99.11	+	
		Unit-II	63.15	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	99.60	Error at Station/Auxiliary Consumption/Losses	0.49		
6	60MW KHP	Unit- I	16.40	132kV KHP - Nangkhor Fdr- I	62.34	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.39	132kV KHP - Kilikhar Fdr- II	2.98	+	
		Unit- III	16.29	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.42	132kV Gelephu - Salakati Fdr.	51.26	+	
		-	-	132kV Motanga - Rangia Fdr.	56.22	+	
		-	-	220kV Tsirang - Jigmeling	90.11	+	
		Total	65.50	Error at Station/Auxiliary Consumption/Losses	-0.32		

Note: Load summary on August 18, 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	1,648.44	223.20	207.34	1,335.13	15.86
2	Eastern Grid	614.83	48.38	48.45	656.56	-0.07
	Total	2,263.27	271.58	255.79	1,991.69	15.79

Note: Load Summary on August 18, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	228.46	247.42	259.44
2	Eastern Grid	37.77	48.23	55.98
	National	266.23	295.65	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.
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