

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	August 1, 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	188.14	400kV THP - Siliguri Fdr- I	258.45	+	
		Unit- II	185.20	400kV THP - Siliguri Fdr- II	257.18	+	
		Unit- III	186.23	400kV THP - Siliguri Fdr- IV	249.24	+	
		Unit- IV	187.20	400kV THP - Malbase Fdr- III	337.50	+	
		Unit- V	187.41	400kV Malbase - Siliguri	223.75	+	
		Unit- VI	185.89	-	-	-	
		Total	1,120.07	Error at Station/Auxiliary Consumption/Losses	17.70		
2	720MW MHP	Unit-I	186.68	400kV MHP - Jigmeling Fdr - I	187.55	+	
		Unit-II	185.31	400kV MHP - Jigmeling Fdr - II	183.89	+	
		Unit-III		400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV		400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	371.99	Error at Station/Auxiliary Consumption/Losses	0.55		
2	336MW CHP	Unit- I	91.68	220kV CHP - Birpara Fdr- I	115.91	+	
		Unit- II	91.39	220kV CHP - Birpara Fdr- II	116.07	+	
		Unit- III	91.58	220kV CHP - Malbase Fdr- III	143.28	+	
		Unit- IV	91.76	220kV CHP - Semtokha Fdr- IV	-23.52	-	
		-	-	220kV Malbase - Birpara Fdr.	81.17	+	
		-	-	66kV CHP - Chumdo Fdr.	4.08	+	
		-	-	66kV CHP - Gedu Fdr.	7.53	+	
		-	-	3x3MVA, 66/11kV TFR	1.17	+	
		Total	366.41	Error at Station/Auxiliary Consumption/Losses	1.89		
3	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	51.96	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	18.61	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-6.39	-	
	40MW BHP (L/S)	Unit- I	20.70	5MVA, 66/11kV TFR	0.71	+	
		Unit- II	21.00	30MVA ICT, 220/66kV			
Total	41.70	Error at Station/Auxiliary Consumption/Losses	0.45				
4	126MW DHPC	Unit-I	51.10	220kV DHPC - Tsirang Fdr.	100.76	+	
		Unit-II	50.07	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	101.17	Error at Station/Auxiliary Consumption/Losses	0.41		
5	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	56.90	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	8.96	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	39.02	+	
		-	-	132kV Motanga - Rangia Fdr.	55.56	+	
		-	-	220kV Tsirang - Jigmeling	91.89	+	
		Total	66.00	Error at Station/Auxiliary Consumption/Losses	-0.16		

Note: Load summary on August 01, 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	1,652.99	259.33	238.88	1,301.77	20.45
2	Eastern Grid	437.99	63.86	63.47	466.02	0.39
	Total	2,090.98	323.19	302.35	1,767.79	20.84

Note: Load Summary on August 01, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	251.97	253.15	259.44
2	Eastern Grid	49.04	49.04	55.98
	National	301.01	302.19	315.42

NOTES: Eastern load collected from site

- 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 2, 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	187.19	400kV THP - Siliguri Fdr- I	267.32	+	
		Unit- II	187.32	400kV THP - Siliguri Fdr- II	265.09	+	
		Unit- III	186.82	400kV THP - Siliguri Fdr- IV	258.18	+	
		Unit- IV	186.53	400kV THP - Malbase Fdr- III	314.66	+	
		Unit- V	187.69	400kV Malbase - Siliguri	239.43	+	
		Unit- VI	186.76	-	-	-	
		Total	1,122.31	Error at Station/Auxiliary Consumption/Losses	17.06		
2	720MW MHP	Unit-I	187.10	400kV MHP - Jigmeling Fdr - I	187.70	+	
		Unit-II	185.30	400kV MHP - Jigmeling Fdr - II	184.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	372.40	Error at Station/Auxiliary Consumption/Losses	0.70		
3	336MW CHP	Unit- I	91.59	220kV CHP - Birpara Fdr- I	120.83	+	
		Unit- II	91.68	220kV CHP - Birpara Fdr- II	120.87	+	
		Unit- III	90.98	220kV CHP - Malbase Fdr- III	175.35	+	
		Unit- IV	91.39	220kV CHP - Semtokha Fdr- IV	-60.27	-	
		-	-	220kV Malbase - Birpara Fdr.	63.11	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.53	+	
		-	-	66kV CHP - Gedu Fdr.	8.72	+	
		-	-	3x3MVA, 66/11kV TFR	0.66	+	
Total	365.64	Error at Station/Auxiliary Consumption/Losses	0.01				
4	24MW BHP (U/S)	Unit- I	12.40	220kV BHP - Semtokha Fdr.	94.16	+	
		Unit- II	12.20	66kV BHP - Lobeyasa Fdr.	19.21	+	
		Total	24.60	220kV BHP - Tsirang Fdr.	-46.50	-	
	40MW BHP (L/S)	Unit- I	20.70	5MVA, 66/11kV TFR	0.85	+	
		Unit- II	21.00	30MVA ICT, 220/66kV			
Total	41.70	Error at Station/Auxiliary Consumption/Losses	-1.42				
5	126MW DHPC	Unit-I	63.56	220kV DHPC - Tsirang Fdr.	126.44	+	
		Unit-II	63.42	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.98	Error at Station/Auxiliary Consumption/Losses	0.54		
6	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhon Fdr- I	61.30	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	3.72	+	
		Unit- III	16.16	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	51.37	+	
		-	-	132kV Motanga - Rangia Fdr.	61.10	+	
		-	-	220kV Tsirang - Jigmeling	91.08	+	
		Total	65.66	Error at Station/Auxiliary Consumption/Losses	0.34		

Note: Load summary on August 02, 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	1,681.23	255.32	239.13	1,334.83	16.19
2	Eastern Grid	438.06	44.97	43.93	484.17	1.04
	Total	2,119.29	300.29	283.06	1,819.00	17.23

Note: Load Summary on August 02, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.02	253.93	259.44
2	Eastern Grid	41.92	47.71	55.98
	National	274.94	301.64	315.42

NOTES: Eastern load collected from site

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 - 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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