

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 13, 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	187.16	400kV THP - Siliguri Fdr- I	255.10	+	
		Unit- II	185.89	400kV THP - Siliguri Fdr- II	255.45	+	
		Unit- III	187.00	400kV THP - Siliguri Fdr- IV	247.04	+	
		Unit- IV	187.34	400kV THP - Malbase Fdr- III	348.08	+	
		Unit- V	188.22	400kV Malbase - Siliguri	218.64	+	
		Unit- VI	186.73	-	-	-	
		Total	1,122.34	Error at Station/Auxiliary Consumption/Losses	16.67		
2	720MW MHP	Unit-I	186.75	400kV MHP - Jigmeling Fdr - I	373.45	+	400kVMHP-Jigmeling Fdr.III Unit-III & IV under shutdown
		Unit-II	187.78	400kV MHP - Jigmeling Fdr - II	0.00	+	
		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	0.00		
		-	-	(Local Load)	0.00		
		Total	374.53	Error at Station/Auxiliary Consumption/Losses	1.08		
2	336MW CHP	Unit- I	91.80	220kV CHP - Birpara Fdr- I	63.10	+	Unit III & IV under shutdown
		Unit- II	91.57	220kV CHP - Birpara Fdr- II	63.16	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	72.11	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-27.38	-	
		-	-	220kV Malbase - Birpara Fdr.	48.89	+	
		-	-	66kV CHP - Chumdo Fdr.	4.65	+	
		-	-	66kV CHP - Gedu Fdr.	5.97	+	
		-	-	3x3MVA, 66/11kV TFR	1.28	+	
Total	183.37	Error at Station/Auxiliary Consumption/Losses	0.48				
3	24MW BHP (U/S)	Unit- I	10.39	220kV BHP - Semtokha Fdr.	57.84	+	
		Unit- II	10.39	66kV BHP - Lobeyasa Fdr.	17.62	+	
		Total	20.78	220kV BHP - Tsirang Fdr.	-17.62	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	19.16	30MVA ICT, 220/66kV			
Total	39.46	Error at Station/Auxiliary Consumption/Losses	1.68				
4	126MW DHPC	Unit-I	28.32	220kV DHPC - Tsirang Fdr.	89.73	+	
		Unit-II	63.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	91.50	Error at Station/Auxiliary Consumption/Losses	1.77		
5	60MW KHP	Unit- I	16.61	132kV KHP - Nangkhon Fdr- I	56.68	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.60	132kV KHP - Kilikhar Fdr- II	8.89	+	
		Unit- III	16.56	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.71	132kV Gelephu - Salakati Fdr.	31.67	+	
		-	-	132kV Motanga - Rangia Fdr.	52.35	+	
		-	-	220kV Tsirang - Jigmeling	71.18	+	
		Total	66.48	Error at Station/Auxiliary Consumption/Losses	0.61		

Note: Load summary on August 13, 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	1,457.45	234.89	214.29	1,151.38	20.60
2	Eastern Grid	441.01	54.72	53.03	457.47	1.69
	Total	1,898.46	289.61	267.32	1,608.85	22.29

Note: Load Summary on August 13, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	245.16	248.30	259.44
2	Eastern Grid	52.94	52.94	55.98
	National	298.10	301.24	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 14, 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	187.61	400kV THP - Siliguri Fdr- I	267.82	+	
		Unit- II	183.80	400kV THP - Siliguri Fdr- II	266.84	+	
		Unit- III	187.77	400kV THP - Siliguri Fdr- IV	260.33	+	
		Unit- IV	187.19	400kV THP - Malbase Fdr- III	305.39	+	
		Unit- V	185.52	400kV Malbase - Siliguri	243.21	+	
		Unit- VI	186.06	-	-	-	
		Total	1,117.95	Error at Station/Auxiliary Consumption/Losses	17.57		
2	720MW MHP	Unit-I	188.34	400kV MHP - Jigmeling Fdr - I	385.30	+	400kVMHP-Jigmeling Fdr.III Unit-III under shutdown
		Unit-II	188.39	400kV MHP - Jigmeling Fdr - II	180.44	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	182.04	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	558.77	Error at Station/Auxiliary Consumption/Losses	-6.97		
3	336MW CHP	Unit- I	91.47	220kV CHP - Birpara Fdr- I	99.50	+	Unit- IV under shutdown
		Unit- II	91.56	220kV CHP - Birpara Fdr- II	99.43	+	
		Unit- III	91.42	220kV CHP - Malbase Fdr- III	137.71	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-71.40	-	
		-	-	220kV Malbase - Birpara Fdr.	56.77	+	
		-	-	66kV CHP - Chumdo Fdr.	0.14	+	
		-	-	66kV CHP - Gedu Fdr.	7.73	+	
		Total	274.45	Error at Station/Auxiliary Consumption/Losses	0.67		
4	24MW BHP (U/S)	Unit- I	11.26	220kV BHP - Semtokha Fdr.	91.30	+	
		Unit- II	11.26	66kV BHP - Lobeyasa Fdr.	16.58	+	
		Total	22.52	220kV BHP - Tsirang Fdr.	-43.29	-	
	40MW BHP (L/S)	Unit- I	20.50	5MVA, 66/11kV TFR	0.34	+	
		Unit- II	20.90	30MVA ICT, 220/66kV			
		Total	41.40	Error at Station/Auxiliary Consumption/Losses	-1.01		
5	126MW DHPC	Unit-I	63.50	220kV DHPC - Tsirang Fdr.	126.28	+	
		Unit-II	63.28	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.78	Error at Station/Auxiliary Consumption/Losses	0.50		
6	60MW KHP	Unit- I	16.34	132kV KHP - Nangkor Fdr- I	60.86	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.40	132kV KHP - Kilikhar Fdr- II	3.90	+	
		Unit- III	16.31	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.16	132kV Gelephu - Salakati Fdr.	46.58	+	
		-	-	132kV Motanga - Rangia Fdr.	46.92	+	
		-	-	220kV Tsirang - Jigmeling	80.69	+	
		Total	65.21	Error at Station/Auxiliary Consumption/Losses	-0.05		

Note: Load summary on August 14, 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	1,583.10	208.51	190.78	1,293.90	17.73
2	Eastern Grid	623.98	45.43	52.45	659.24	-7.02
	Total	2,207.08	253.94	243.23	1,953.14	10.71

Note: Load Summary on August 14, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	218.63	249.33	259.44
2	Eastern Grid	41.73	52.62	55.98
	National	260.36	301.95	315.42

NOTES:

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