

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: September 3, 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	187.40	400kV THP - Siliguri Fdr- I	232.64	+	
		Unit- II	186.36	400kV THP - Siliguri Fdr- II	231.79	+	
		Unit- III	188.04	400kV THP - Siliguri Fdr- IV	225.24	+	
		Unit- IV	185.35	400kV THP - Malbase Fdr- III	333.45	+	
		Unit- V	98.95	400kV Malbase - Siliguri	193.77	+	
		Unit- VI	186.35	-	-	-	
		Total	1,032.45	Error at Station/Auxiliary Consumption/Losses	9.33		
2	720MW MHP	Unit-I	184.16	400kV MHP - Jigmeling Fdr - I	278.36	+	Unit-III under shutdown
		Unit-II	179.24	400kV MHP - Jigmeling Fdr - II	278.34	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.48	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	555.88	Error at Station/Auxiliary Consumption/Losses	-0.82		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	79.23	+	CHP Unit-I under breakdown..
		Unit- II	91.71	220kV CHP - Birpara Fdr- II	79.37	+	
		Unit- III	91.17	220kV CHP - Malbase Fdr- III	93.09	+	
		Unit- IV	91.47	220kV CHP - Semtokha Fdr- IV	8.10	+	
		-	-	220kV Malbase - Birpara Fdr.	58.94	+	
		-	-	66kV CHP - Chumdo Fdr.	6.20	+	
		-	-	66kV CHP - Gedu Fdr.	6.75	+	
		Total	274.35	Error at Station/Auxiliary Consumption/Losses	0.34		
3	24MW BHP (U/S)	Unit- I	8.76	220kV BHP - Semtokha Fdr.	25.81	+	
		Unit- II	8.76	66kV BHP - Lobeyasa Fdr.	16.54	+	
		Total	17.52	220kV BHP - Tsirang Fdr.	6.95	+	
	40MW BHP (L/S)	Unit- I	16.77	5MVA, 66/11kV TFR	1.09	+	
		Unit- II	16.13	30MVA ICT, 220/66kV			
Total	32.90	Error at Station/Auxiliary Consumption/Losses	0.03				
4	126MW DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	79.96	+	
		Unit-II	50.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	80.43	Error at Station/Auxiliary Consumption/Losses	0.47		
5	60MW KHP	Unit- I	16.51	132kV KHP - Nangkor Fdr- I	57.03	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.69	132kV KHP - Kilikhar Fdr- II	8.04	+	
		Unit- III	16.47	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	16.59	132kV Gelephu - Salakati Fdr.	31.94	+	
		-	-	132kV Motanga - Rangia Fdr.	48.66	+	
		-	-	220kV Tsirang - Jigmeling	82.73	+	
		Total	66.26	Error at Station/Auxiliary Consumption/Losses	0.49		

Note: Load summary on September 03, 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	1,437.65	253.94	243.77	1,100.98	10.17
2	Eastern Grid	622.14	67.57	67.90	637.30	-0.33
	Total	2,059.79	321.51	311.67	1,738.28	9.84

Note: Load Summary on September 03, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	231.58	231.58	256.15
2	Eastern Grid	54.44	54.44	57.74
	National	286.02	286.02	313.89

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:	September 4, 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	187.55	400kV THP - Siliguri Fdr- I	264.62	+	
		Unit- II	186.28	400kV THP - Siliguri Fdr- II	261.29	+	
		Unit- III	187.56	400kV THP - Siliguri Fdr- IV	254.16	+	
		Unit- IV	184.38	400kV THP - Malbase Fdr- III	319.50	+	
		Unit- V	186.45	400kV Malbase - Siliguri	235.27	+	
		Unit- VI	186.71	-	-	-	
		Total	1,118.93	Error at Station/Auxiliary Consumption/Losses	19.36		
2	720MW MHP	Unit-I	184.80	400kV MHP - Jigmeling Fdr - I	286.20	+	Unit- III under shutdown
		Unit-II	179.50	400kV MHP - Jigmeling Fdr - II	284.30	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	556.80	Error at Station/Auxiliary Consumption/Losses	-13.70		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	80.97	+	CHP Unit-I under breakdown.
		Unit- II	91.34	220kV CHP - Birpara Fdr- II	81.04	+	
		Unit- III	91.56	220kV CHP - Malbase Fdr- III	124.65	+	
		Unit- IV	91.72	220kV CHP - Semtokha Fdr- IV	-23.22	-	
		-	-	220kV Malbase - Birpara Fdr.	36.77	+	
		-	-	66kV CHP - Chumdo Fdr.	1.67	+	
		-	-	66kV CHP - Gedu Fdr.	7.26	+	
		Total	274.62	Error at Station/Auxiliary Consumption/Losses	1.57		
4	24MW BHP (U/S)	Unit- I	8.74	220kV BHP - Semtokha Fdr.	43.60	+	
		Unit- II	8.74	66kV BHP - Lobeyasa Fdr.	13.57	+	
		Total	17.48	220kV BHP - Tsirang Fdr.	-7.27	-	
	40MW BHP (L/S)	Unit- I	16.74	5MVA, 66/11kV TFR	0.49	+	
		Unit- II	16.10	30MVA ICT, 220/66kV			
		Total	32.84	Error at Station/Auxiliary Consumption/Losses	-0.07		
5	126MW DHPC	Unit-I	30.28	220kV DHPC - Tsirang Fdr.	69.03	+	
		Unit-II	39.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	69.44	Error at Station/Auxiliary Consumption/Losses	0.41		
6	60MW KHP	Unit- I	16.46	132kV KHP - Nangkhon Fdr- I	61.15	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.59	132kV KHP - Kilikhar Fdr- II	4.13	+	
		Unit- III	16.54	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.44	132kV Gelephu - Salakati Fdr.	38.97	+	
		-	-	132kV Motanga - Rangia Fdr.	39.22	+	
		-	-	220kV Tsirang - Jigmeling	59.94	+	
		Total	66.03	Error at Station/Auxiliary Consumption/Losses	0.25		

Note: Load summary on September 04, 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	1,513.31	239.25	217.98	1,214.12	21.27
2	Eastern Grid	622.83	34.08	47.53	648.69	-13.45
	Total	2,136.14	273.33	265.51	1,862.81	7.82

Note: Load Summary on September 04, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	205.80	231.58	256.15
2	Eastern Grid	36.92	54.44	57.74
	National	242.72	286.02	313.89

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:
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