

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: September 4, 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	186.92	400kV THP - Siliguri Fdr- I	256.21	+	
		Unit- II	187.35	400kV THP - Siliguri Fdr- II	254.94	+	
		Unit- III	187.69	400kV THP - Siliguri Fdr- IV	247.92	+	
		Unit- IV	187.20	400kV THP - Malbase Fdr- III	346.20	+	
		Unit- V	187.45	400kV Malbase - Siliguri	219.67	+	
		Unit- VI	185.56	-	-	-	
		Total	1,122.17	Error at Station/Auxiliary Consumption/Losses	16.90		
2	720MW MHP	Unit-I	190.27	400kV MHP - Jigmeling Fdr - I	281.40	+	Unit-III under shutdown
		Unit-II	189.32	400kV MHP - Jigmeling Fdr - II	282.30	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	193.38	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	572.97	Error at Station/Auxiliary Consumption/Losses	9.27		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	94.70	+	CHP Unit-I under breakdown..
		Unit- II	91.74	220kV CHP - Birpara Fdr- II	94.31	+	
		Unit- III	91.39	220kV CHP - Malbase Fdr- III	52.12	+	
		Unit- IV	91.65	220kV CHP - Semtokha Fdr- IV	19.24	+	
		-	-	220kV Malbase - Birpara Fdr.	0.00	+	
		-	-	66kV CHP - Chumdo Fdr.	6.84	+	
		-	-	66kV CHP - Gedu Fdr.	5.68	+	
		-	-	3x3MVA, 66/11kV TFR	1.29	+	
Total	274.78	Error at Station/Auxiliary Consumption/Losses	0.60				
3	24MW BHP (U/S)	Unit- I	8.47	220kV BHP - Semtokha Fdr.	14.92	+	
		Unit- II	8.47	66kV BHP - Lobeyasa Fdr.	16.53	+	
		Total	16.94	220kV BHP - Tsirang Fdr.	16.96	+	
	40MW BHP (L/S)	Unit- I	16.64	5MVA, 66/11kV TFR	0.76	+	
		Unit- II	16.01	30MVA ICT, 220/66kV			
Total	32.65	Error at Station/Auxiliary Consumption/Losses	0.42				
4	126MW DHPC	Unit-I	30.30	220kV DHPC - Tsirang Fdr.	65.00	+	
		Unit-II	35.15	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	65.45	Error at Station/Auxiliary Consumption/Losses	0.45		
5	60MW KHP	Unit- I	16.47	132kV KHP - Nangkor Fdr- I	57.69	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.49	132kV KHP - Kilikhar Fdr- II	7.28	+	
		Unit- III	16.45	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.37	132kV Gelephu - Salakati Fdr.	29.58	+	
		-	-	132kV Motanga - Rangia Fdr.	49.83	+	
		-	-	220kV Tsirang - Jigmeling	79.77	+	
		Total	65.78	Error at Station/Auxiliary Consumption/Losses	0.31		

Note: Load summary on September 04, 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	1,511.99	264.47	246.10	1,167.75	18.37
2	Eastern Grid	638.75	75.41	65.83	643.11	9.58
	Total	2,150.74	339.88	311.93	1,810.86	27.95

Note: Load Summary on September 04, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	225.69	225.69	256.15
2	Eastern Grid	54.57	54.57	57.74
	National	280.26	280.26	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 5, 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	187.72	400kV THP - Siliguri Fdr- I	264.52	+	
		Unit- II	186.94	400kV THP - Siliguri Fdr- II	263.66	+	
		Unit- III	187.07	400kV THP - Siliguri Fdr- IV	255.56	+	
		Unit- IV	186.74	400kV THP - Malbase Fdr- III	322.71	+	
		Unit- V	186.52	400kV Malbase - Siliguri	233.98	+	
		Unit- VI	186.63	-	-	-	
		Total	1,121.62	Error at Station/Auxiliary Consumption/Losses	15.17		
2	720MW MHP	Unit-I	191.00	400kV MHP - Jigmeling Fdr - I	293.90	+	Unit- III under shutdown
		Unit-II	188.10	400kV MHP - Jigmeling Fdr - II	282.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	193.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	572.10	Error at Station/Auxiliary Consumption/Losses	-4.30		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	83.22	+	CHP Unit-I under breakdown.
		Unit- II	91.07	220kV CHP - Birpara Fdr- II	82.83	+	
		Unit- III	91.67	220kV CHP - Malbase Fdr- III	124.88	+	
		Unit- IV	91.46	220kV CHP - Semtokha Fdr- IV	-27.21	-	
		-	-	220kV Malbase - Birpara Fdr.	39.86	+	
		-	-	66kV CHP - Chumdo Fdr.	1.69	+	
		-	-	66kV CHP - Gedu Fdr.	7.45	+	
		Total	274.20	Error at Station/Auxiliary Consumption/Losses	0.65		
4	24MW BHP (U/S)	Unit- I	10.07	220kV BHP - Semtokha Fdr.	47.71	+	
		Unit- II	10.07	66kV BHP - Lobeyasa Fdr.	14.86	+	
		Total	20.14	220kV BHP - Tsirang Fdr.	-4.64	-	
	40MW BHP (L/S)	Unit- I	19.40	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	18.66	30MVA ICT, 220/66kV			
		Total	38.06	Error at Station/Auxiliary Consumption/Losses	-0.10		
5	126MW DHPC	Unit-I	30.30	220kV DHPC - Tsirang Fdr.	69.97	+	
		Unit-II	40.09	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	70.39	Error at Station/Auxiliary Consumption/Losses	0.42		
6	60MW KHP	Unit- I	16.54	132kV KHP - Nangkhon Fdr- I	62.22	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.66	132kV KHP - Kilikhar Fdr- II	3.73	+	
		Unit- III	16.62	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.42	132kV Gelephu - Salakati Fdr.	33.37	+	
		-	-	132kV Motanga - Rangia Fdr.	43.06	+	
		-	-	220kV Tsirang - Jigmeling	67.89	+	
		Total	66.24	Error at Station/Auxiliary Consumption/Losses	-0.21		

Note: Load summary on September 05, 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	1,524.41	232.89	216.75	1,223.63	16.14
2	Eastern Grid	638.34	53.40	57.91	652.83	-4.51
	Total	2,162.75	286.29	274.66	1,876.46	11.63

Note: Load Summary on September 05, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	199.93	231.23	256.15
2	Eastern Grid	33.71	50.79	57.74
	National	233.64	282.02	313.89

NOTES:

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