

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	August 31, 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	187.46	400kV THP - Siliguri Fdr- I	255.92	+	
		Unit- II	186.98	400kV THP - Siliguri Fdr- II	253.57	+	
		Unit- III	187.89	400kV THP - Siliguri Fdr- IV	247.38	+	
		Unit- IV	187.01	400kV THP - Malbase Fdr- III	347.53	+	
		Unit- V	186.88	400kV Malbase - Siliguri	219.57	+	
		Unit- VI	186.15	-	-	-	
		Total	1,122.37	Error at Station/Auxiliary Consumption/Losses	17.97		
2	720MW MHP	Unit-I	189.99	400kV MHP - Jigmeling Fdr - I	277.80	+	Unit-III under shutdown
		Unit-II	179.30	400kV MHP - Jigmeling Fdr - II	276.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.58	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	561.87	Error at Station/Auxiliary Consumption/Losses	8.07		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	90.60	+	Unit-I tripped since 23/08/2019.
		Unit- II	91.04	220kV CHP - Birpara Fdr- II	90.51	+	
		Unit- III	91.80	220kV CHP - Malbase Fdr- III	116.92	+	
		Unit- IV	91.42	220kV CHP - Semtokha Fdr- IV	-46.18	-	
		-	-	220kV Malbase - Birpara Fdr.	59.30	+	
		-	-	66kV CHP - Chumdo Fdr.	15.36	+	
		-	-	66kV CHP - Gedu Fdr.	4.73	+	
		Total	274.26	Error at Station/Auxiliary Consumption/Losses	1.17		
3	24MW BHP (U/S)	Unit- I	12.30	220kV BHP - Semtokha Fdr.	67.34	+	
		Unit- II	12.20	66kV BHP - Lobeyasa Fdr.	18.37	+	
		Total	24.50	220kV BHP - Tsirang Fdr.	-20.69	-	
	40MW BHP (L/S)	Unit- I	20.10	5MVA, 66/11kV TFR	0.74	+	
		Unit- II	20.16	30MVA ICT, 220/66kV			
Total	40.26	Error at Station/Auxiliary Consumption/Losses	1.00				
4	126MW DHPC	Unit-I	63.56	220kV DHPC - Tsirang Fdr.	126.22	+	
		Unit-II	63.26	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.82	Error at Station/Auxiliary Consumption/Losses	0.60		
5	60MW KHP	Unit- I	16.37	132kV KHP - Nangkor Fdr- I	56.51	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.61	132kV KHP - Kilikhar Fdr- II	8.80	+	
		Unit- III	16.56	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.39	132kV Gelephu - Salakati Fdr.	46.19	+	
		-	-	132kV Motanga - Rangia Fdr.	47.95	+	
		-	-	220kV Tsirang - Jigmeling	99.00	+	
		Total	65.93	Error at Station/Auxiliary Consumption/Losses	0.12		

Note: Load summary on August 31, 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	1,588.21	272.36	253.62	1,216.85	18.74
2	Eastern Grid	627.80	78.86	70.67	647.94	8.19
	Total	2,216.01	351.22	324.29	1,864.79	26.93

Note: Load Summary on August 31, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	242.12	242.80	259.44
2	Eastern Grid	40.83	40.83	55.98
	National	282.95	283.63	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:	September 1, 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	187.11	400kV THP - Siliguri Fdr- I	263.55	+	
		Unit- II	185.80	400kV THP - Siliguri Fdr- II	261.15	+	
		Unit- III	187.31	400kV THP - Siliguri Fdr- IV	253.95	+	
		Unit- IV	187.60	400kV THP - Malbase Fdr- III	324.61	+	
		Unit- V	186.40	400kV Malbase - Siliguri	232.73	+	
		Unit- VI	186.45	-	-	-	
		Total	1,120.67	Error at Station/Auxiliary Consumption/Losses	17.41		
2	720MW MHP	Unit-I	190.40	400kV MHP - Jigmeling Fdr - I	277.10	+	Unit- III under shutdown
		Unit-II	179.60	400kV MHP - Jigmeling Fdr - II	278.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.80	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	562.80	Error at Station/Auxiliary Consumption/Losses	7.20		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	88.90	+	CHP Unit-I under breakdown.
		Unit- II	91.33	220kV CHP - Birpara Fdr- II	88.62	+	
		Unit- III	91.08	220kV CHP - Malbase Fdr- III	122.08	+	
		Unit- IV	91.74	220kV CHP - Semtokha Fdr- IV	-41.38	-	
		-	-	220kV Malbase - Birpara Fdr.	51.23	+	
		-	-	66kV CHP - Chumdo Fdr.	9.64	+	
		-	-	66kV CHP - Gedu Fdr.	4.89	+	
		Total	274.15	Error at Station/Auxiliary Consumption/Losses	0.62		
4	24MW BHP (U/S)	Unit- I	11.10	220kV BHP - Semtokha Fdr.	55.33	+	
		Unit- II	11.10	66kV BHP - Lobeyasa Fdr.	14.50	+	
		Total	22.20	220kV BHP - Tsirang Fdr.	-7.49	-	
	40MW BHP (L/S)	Unit- I	20.60	5MVA, 66/11kV TFR	1.03	+	
		Unit- II	21.00	30MVA ICT, 220/66kV			
		Total	41.60	Error at Station/Auxiliary Consumption/Losses	0.43		
5	126MW DHPC	Unit-I	31.30	220kV DHPC - Tsirang Fdr.	86.02	+	
		Unit-II	55.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	86.48	Error at Station/Auxiliary Consumption/Losses	0.46		
6	60MW KHP	Unit- I	16.58	132kV KHP - Nangkor Fdr- I	61.36	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.62	132kV KHP - Kilikhar Fdr- II	4.19	+	
		Unit- III	16.45	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.46	132kV Gelephu - Salakati Fdr.	51.12	+	
		-	-	132kV Motanga - Rangia Fdr.	52.66	+	
		-	-	220kV Tsirang - Jigmeling	76.37	+	
		Total	66.11	Error at Station/Auxiliary Consumption/Losses	0.06		

Note: Load summary on September 01, 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	1,545.10	228.60	209.68	1,240.13	18.92
2	Eastern Grid	628.91	45.90	38.64	659.38	7.26
	Total	2,174.01	274.50	248.32	1,899.51	26.18

Note: Load Summary on September 01, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	203.81	242.80	259.44
2	Eastern Grid	29.99	40.83	55.98
	National	233.80	283.63	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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