

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 20, 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	186.59	400kV THP - Siliguri Fdr- I	255.29	+	
		Unit- II	186.93	400kV THP - Siliguri Fdr- II	247.80	+	
		Unit- III	187.09	400kV THP - Siliguri Fdr- IV	247.00	+	
		Unit- IV	187.69	400kV THP - Malbase Fdr- III	370.64	+	
		Unit- V	186.37	400kV Malbase - Siliguri	206.58	+	
		Unit- VI	186.87	-	-	-	
		Total	1,121.54	Error at Station/Auxiliary Consumption/Losses	0.81		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	285.96	+	Unit I under break down,
		Unit-II	194.00	400kV MHP - Jigmeling Fdr - II	295.00	+	
		Unit-III	193.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	194.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	581.00	Error at Station/Auxiliary Consumption/Losses	0.04		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	58.64	+	Unit-I under breakdown & Unit IV under Shutdown.
		Unit- II	92.00	220kV CHP - Birpara Fdr- II	58.47	+	
		Unit- III	92.00	220kV CHP - Malbase Fdr- III	74.01	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-22.74	-	
		-	-	220kV Malbase - Birpara Fdr.	40.06	+	
		-	-	66kV CHP - Chumdo Fdr.	5.46	+	
		-	-	66kV CHP - Gedu Fdr.	7.27	+	
		-	-	3x3MVA, 66/11kV TFR	1.33	+	
		Total	184.00	Error at Station/Auxiliary Consumption/Losses	1.56		
3	24MW BHP (U/S)	Unit- I	11.87	220kV BHP - Semtokha Fdr.	57.63	+	
		Unit- II	11.87	66kV BHP - Lobeyasa Fdr.	19.62	+	
		Total	23.74	220kV BHP - Tsirang Fdr.	-13.23	-	
	40MW BHP (L/S)	Unit- I	21.04	5MVA, 66/11kV TFR	0.59	+	
		Unit- II	20.21	30MVA ICT, 220/66kV			
Total	41.25	Error at Station/Auxiliary Consumption/Losses	0.38				
4	126MW DHPC	Unit-I	36.19	220kV DHPC - Tsirang Fdr.	94.63	+	
		Unit-II	58.98	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	95.17	Error at Station/Auxiliary Consumption/Losses	0.54		
5	60MW KHP	Unit- I	16.50	132kV KHP - Nangkor Fdr- I	56.49	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	9.09	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	32.13	+	
		-	-	132kV Motanga - Rangia Fdr.	46.88	+	
		-	-	220kV Tsirang - Jigmeling	78.29	+	
		Total	66.00	Error at Station/Auxiliary Consumption/Losses	-0.18		

Note: Load summary on September 20, 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	1,465.70	273.57	270.28	1,113.84	3.29
2	Eastern Grid	647.00	65.32	65.46	659.97	-0.14
	Total	2,112.70	338.89	335.74	1,773.81	3.15

Note: Load Summary on September 20, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	155.81	156.13	256.15
2	Eastern Grid	47.51	47.51	57.74
	National	203.32	203.64	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 21, 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	187.50	400kV THP - Siliguri Fdr- I	264.23	+	
		Unit- II	185.59	400kV THP - Siliguri Fdr- II	263.68	+	
		Unit- III	187.74	400kV THP - Siliguri Fdr- IV	256.54	+	
		Unit- IV	187.36	400kV THP - Malbase Fdr- III	320.49	+	
		Unit- V	187.40	400kV Malbase - Siliguri	235.22	+	
		Unit- VI	186.19	-	-	-	
		Total	1,121.78	Error at Station/Auxiliary Consumption/Losses	16.84		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	290.54	+	Unit I under break down
		Unit-II	195.93	400kV MHP - Jigmeling Fdr - II	290.54	+	
		Unit-III	194.24	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	193.73	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	583.90	Error at Station/Auxiliary Consumption/Losses	2.82		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	85.03	+	Unit-I under breakdown.
		Unit- II	92.00	220kV CHP - Birpara Fdr- II	85.01	+	
		Unit- III	92.00	220kV CHP - Malbase Fdr- III	137.15	+	
		Unit- IV	92.00	220kV CHP - Semtokha Fdr- IV	-44.54	-	
		-	-	220kV Malbase - Birpara Fdr.	34.13	+	
		-	-	66kV CHP - Chumdo Fdr.	1.62	+	
		-	-	66kV CHP - Gedu Fdr.	8.52	+	
		Total	276.00	Error at Station/Auxiliary Consumption/Losses	2.40		
4	24MW BHP (U/S)	Unit- I	11.85	220kV BHP - Semtokha Fdr.	68.71	+	
		Unit- II	11.85	66kV BHP - Lobeyasa Fdr.	17.53	+	
		Total	23.70	220kV BHP - Tsirang Fdr.	-21.01	-	
	40MW BHP (L/S)	Unit- I	21.03	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	20.21	30MVA ICT, 220/66kV			
Total	41.24	Error at Station/Auxiliary Consumption/Losses	-0.69				
5	126MW DHPC	Unit-I	29.99	220kV DHPC - Tsirang Fdr.	87.51	+	
		Unit-II	58.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	88.15	Error at Station/Auxiliary Consumption/Losses	0.64		
6	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	60.06	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	4.72	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.34	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	38.00	+	
		-	-	132kV Motanga - Rangia Fdr.	47.00	+	
		-	-	220kV Tsirang - Jigmeling	64.21	+	
		Total	66.00	Error at Station/Auxiliary Consumption/Losses	0.88		

Note: Load summary on September 21, 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	1,550.87	262.82	243.63	1,223.84	19.19
2	Eastern Grid	649.90	48.03	44.33	666.08	3.70
	Total	2,200.77	310.85	287.96	1,889.92	22.89

Note: Load Summary on September 21, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	126.35	168.59	256.15
2	Eastern Grid	29.57	43.73	57.74
	National	155.92	212.32	313.89

NOTES:

1. 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:
 - i) 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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