

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 29, 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	186.52	400kV THP - Siliguri Fdr- I	261.49	+	
		Unit- II	187.50	400kV THP - Siliguri Fdr- II	261.42	+	
		Unit- III	187.31	400kV THP - Siliguri Fdr- IV	260.46	+	
		Unit- IV	186.46	400kV THP - Malbase Fdr- III	330.68	+	
		Unit- V	186.85	400kV Malbase - Siliguri	229.91	+	
		Unit- VI	186.31	-	-	-	
		Total	1,120.95	Error at Station/Auxiliary Consumption/Losses	6.90		
2	720MW MHP	Unit-I	72.31	400kV MHP - Jigmeling Fdr - I	230.00	+	Unit-III under break down
		Unit-II	193.27	400kV MHP - Jigmeling Fdr - II	231.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.75	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	461.33	Error at Station/Auxiliary Consumption/Losses	0.33		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	87.23	+	Unit-I under breakdown
		Unit- II	91.93	220kV CHP - Birpara Fdr- II	87.44	+	
		Unit- III	91.58	220kV CHP - Malbase Fdr- III	125.16	+	
		Unit- IV	91.37	220kV CHP - Semtokha Fdr- IV	-41.34	-	
		-	-	220kV Malbase - Birpara Fdr.	47.23	+	
		-	-	66kV CHP - Chumdo Fdr.	5.90	+	
		-	-	66kV CHP - Gedu Fdr.	7.69	+	
		Total	274.88	Error at Station/Auxiliary Consumption/Losses	1.35		
3	24MW BHP (U/S)	Unit- I	11.81	220kV BHP - Semtokha Fdr.	82.15	+	
		Unit- II	11.81	66kV BHP - Lobeyasa Fdr.	20.49	+	
		Total	23.62	220kV BHP - Tsirang Fdr.	-37.55	-	
	40MW BHP (L/S)	Unit- I	20.98	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	20.18	30MVA ICT, 220/66kV			
Total	41.16	Error at Station/Auxiliary Consumption/Losses	0.98				
4	126MW DHPC	Unit-I	60.85	220kV DHPC - Tsirang Fdr.	120.44	+	
		Unit-II	60.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	120.99	Error at Station/Auxiliary Consumption/Losses	0.55		
5	60MW KHP	Unit- I	16.43	132kV KHP - Nangkhor Fdr- I	55.38	+	
		Unit-II	16.58	132kV KHP - Kilikhar Fdr- II	9.75	+	
		Unit- III	16.45	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.51	132kV Gelephu - Salakati Fdr.	44.23	+	
		-	-	132kV Motanga - Rangia Fdr.	44.33	+	
		-	-	220kV Tsirang - Jigmeling	78.87	+	
		Total	65.97	Error at Station/Auxiliary Consumption/Losses	0.34		

Note: Load summary on September 29, 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	1,581.60	267.55	259.73	1,235.18	7.82
2	Eastern Grid	527.30	56.61	55.94	549.56	0.67
	Total	2,108.90	324.16	315.67	1,784.74	8.49

Note: Load Summary on September 29, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.33	237.33	256.15
2	Eastern Grid	48.52	48.52	57.74
	National	285.85	285.85	313.89

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.
- ii) The clocks of all the locations are not synchronized.

2. 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 30, 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	186.32	400kV THP - Siliguri Fdr- I	270.21	+	
		Unit- II	187.67	400kV THP - Siliguri Fdr- II	268.10	+	
		Unit- III	187.10	400kV THP - Siliguri Fdr- IV	261.02	+	
		Unit- IV	187.07	400kV THP - Malbase Fdr- III	304.49	+	
		Unit- V	187.12	400kV Malbase - Siliguri	244.76	+	
		Unit- VI	186.17	-	-	-	
		Total	1,121.45	Error at Station/Auxiliary Consumption/Losses	17.63		
2	720MW MHP	Unit-I	72.53	400kV MHP - Jigmeling Fdr - I	229.60	+	Unit-III under breakdown.
		Unit-II	193.30	400kV MHP - Jigmeling Fdr - II	232.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	196.10	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	461.93	Error at Station/Auxiliary Consumption/Losses	0.33		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	92.02	+	Unit-I under breakdown.
		Unit- II	90.89	220kV CHP - Birpara Fdr- II	92.09	+	
		Unit- III	91.41	220kV CHP - Malbase Fdr- III	148.23	+	
		Unit- IV	91.35	220kV CHP - Semtokha Fdr- IV	-68.62	-	
		-	-	220kV Malbase - Birpara Fdr.	37.03	+	
		-	-	66kV CHP - Chumdo Fdr.	1.09	+	
		-	-	66kV CHP - Gedu Fdr.	8.30	+	
		Total	273.65	Error at Station/Auxiliary Consumption/Losses	-0.46		
4	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	94.99	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	18.30	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-47.94	-	
	40MW BHP (L/S)	Unit- I	21.01	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	20.19	30MVA ICT, 220/66kV			
		Total	41.20	Error at Station/Auxiliary Consumption/Losses	-0.94		
5	126MW DHPC	Unit-I	63.51	220kV DHPC - Tsirang Fdr.	122.04	+	
		Unit-II	63.29	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.80	Error at Station/Auxiliary Consumption/Losses	4.76		
6	60MW KHP	Unit- I	16.59	132kV KHP - Nangkhor Fdr- I	60.85	+	
		Unit-II	16.76	132kV KHP - Kilikhar Fdr- II	5.13	+	
		Unit- III	16.71	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	16.68	132kV Gelephu - Salakati Fdr.	47.65	+	
		-	-	132kV Motanga - Rangia Fdr.	38.73	+	
		-	-	220kV Tsirang - Jigmeling	70.00	+	
		Total	66.74	Error at Station/Auxiliary Consumption/Losses	0.56		

Note: Load summary on September 30, 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	1,586.70	251.47	230.48	1,265.23	20.99
2	Eastern Grid	528.67	50.69	49.80	547.98	0.89
	Total	2,115.37	302.16	280.28	1,813.21	21.88

Note: Load Summary on September 30, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	230.33	252.81	256.15
2	Eastern Grid	35.78	48.66	57.74
	National	266.11	301.47	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.
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