

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 17, 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	187.11	400kV THP - Siliguri Fdr- I	256.03	+	
		Unit- II	185.15	400kV THP - Siliguri Fdr- II	254.14	+	
		Unit- III	187.21	400kV THP - Siliguri Fdr- IV	248.31	+	
		Unit- IV	187.53	400kV THP - Malbase Fdr- III	346.02	+	
		Unit- V	187.09	400kV Malbase - Siliguri	220.01	+	
		Unit- VI	187.09	-	-	-	
		Total	1,121.18	Error at Station/Auxiliary Consumption/Losses	16.68		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00	+	400kV MHP-JLG I standby Unit I under break down, Unit II tripped at 15:27hrs
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	353.40	+	
		Unit-III	179.40	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	181.30	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	360.70	Error at Station/Auxiliary Consumption/Losses	7.30		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	96.40	+	Unit-I under breakdown..
		Unit- II	91.18	220kV CHP - Birpara Fdr- II	96.14	+	
		Unit- III	91.28	220kV CHP - Malbase Fdr- III	114.34	+	
		Unit- IV	91.62	220kV CHP - Semtokha Fdr- IV	-46.64	-	
		-	-	220kV Malbase - Birpara Fdr.	70.58	+	
		-	-	66kV CHP - Chumdo Fdr.	3.17	+	
		-	-	66kV CHP - Gedu Fdr.	8.07	+	
		Total	274.08	Error at Station/Auxiliary Consumption/Losses	1.21		
3	24MW BHP (U/S)	Unit- I	11.81	220kV BHP - Semtokha Fdr.	77.11	+	
		Unit- II	11.81	66kV BHP - Lobeyasa Fdr.	18.52	+	
		Total	23.62	220kV BHP - Tsirang Fdr.	-30.44	-	
	40MW BHP (L/S)	Unit- I	21.03	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	20.19	30MVA ICT, 220/66kV			
Total	41.22	Error at Station/Auxiliary Consumption/Losses	1.02				
4	126MW DHPC	Unit-I	63.52	220kV DHPC - Tsirang Fdr.	126.14	+	
		Unit-II	63.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.68	Error at Station/Auxiliary Consumption/Losses	0.54		
5	60MW KHP	Unit- I	16.53	132kV KHP - Nangkhor Fdr- I	56.56	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.06	132kV KHP - Kilikhar Fdr- II	8.34	+	
		Unit- III	16.41	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.46	132kV Gelephu - Salakati Fdr.	49.93	+	
		-	-	132kV Motanga - Rangia Fdr.	47.90	+	
		-	-	220kV Tsirang - Jigmeling	89.56	+	
		Total	65.46	Error at Station/Auxiliary Consumption/Losses	0.06		

Note: Load summary on September 17, 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	1,586.78	255.61	238.20	1,241.61	17.41
2	Eastern Grid	426.16	64.49	57.13	451.23	7.36
	Total	2,012.94	320.10	295.33	1,692.84	24.77

Note: Load Summary on September 17, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.67	239.67	256.15
2	Eastern Grid	49.28	49.28	57.74
	National	288.95	288.95	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.
 - 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 18, 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	186.89	400kV THP - Siliguri Fdr- I	270.49	+	
		Unit- II	188.26	400kV THP - Siliguri Fdr- II	268.64	+	
		Unit- III	186.99	400kV THP - Siliguri Fdr- IV	261.67	+	
		Unit- IV	187.91	400kV THP - Malbase Fdr- III	305.73	+	
		Unit- V	187.15	400kV Malbase - Siliguri	245.78	+	
		Unit- VI	185.91	-	-	-	
		Total	1,123.11	Error at Station/Auxiliary Consumption/Losses	16.58		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	266.20	+	Unit I under break down
		Unit-II	179.20	400kV MHP - Jigmeling Fdr - II	266.90	+	
		Unit-III	179.60	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	181.30	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	540.10	Error at Station/Auxiliary Consumption/Losses	7.00		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	89.56	+	Unit-I under breakdown.
		Unit- II	91.08	220kV CHP - Birpara Fdr- II	89.53	+	
		Unit- III	91.07	220kV CHP - Malbase Fdr- III	146.12	+	
		Unit- IV	91.71	220kV CHP - Semtokha Fdr- IV	-61.31	-	
		-	-	220kV Malbase - Birpara Fdr.	34.63	+	
		-	-	66kV CHP - Chumdo Fdr.	0.14	+	
		-	-	66kV CHP - Gedu Fdr.	8.44	+	
		Total	273.86	Error at Station/Auxiliary Consumption/Losses	1.08		
4	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	82.33	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	16.61	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-34.22	-	
	40MW BHP (L/S)	Unit- I	20.84	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	20.11	30MVA ICT, 220/66kV			
		Total	40.95	Error at Station/Auxiliary Consumption/Losses	-0.50		
5	126MW DHPC	Unit-I	42.03	220kV DHPC - Tsirang Fdr.	100.61	+	
		Unit-II	59.01	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	101.04	Error at Station/Auxiliary Consumption/Losses	0.43		
6	60MW KHP	Unit- I	16.37	132kV KHP - Nangkhor Fdr- I	61.02	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.05	132kV KHP - Kilikhar Fdr- II	3.64	+	
		Unit- III	16.51	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.48	132kV Gelephu - Salakati Fdr.	41.99	+	
		-	-	132kV Motanga - Rangia Fdr.	53.00	+	
		-	-	220kV Tsirang - Jigmeling	64.04	+	
		Total	65.41	Error at Station/Auxiliary Consumption/Losses	0.25		

Note: Load summary on September 18, 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	1,562.60	238.26	220.67	1,260.30	17.59
2	Eastern Grid	605.51	41.46	34.21	628.09	7.25
	Total	2,168.11	279.72	254.88	1,888.39	24.84

Note: Load Summary on September 18, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	221.84	239.67	256.15
2	Eastern Grid	34.68	48.47	57.74
	National	256.52	288.14	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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