

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 15, 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	187.41	400kV THP - Siliguri Fdr- I	259.54	+	
		Unit- II	188.12	400kV THP - Siliguri Fdr- II	255.68	+	
		Unit- III	185.59	400kV THP - Siliguri Fdr- IV	247.23	+	
		Unit- IV	186.60	400kV THP - Malbase Fdr- III	348.24	+	
		Unit- V	186.38	400kV Malbase - Siliguri	218.99	+	
		Unit- VI	186.49	-	-	-	
		Total	1,120.59	Error at Station/Auxiliary Consumption/Losses	9.90		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	195.40	+	Unit-III under shutdown. Unit I under break down
		Unit-II	192.50	400kV MHP - Jigmeling Fdr - II	190.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	194.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	387.00	Error at Station/Auxiliary Consumption/Losses	1.10		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	87.54	+	Unit-I under breakdown..
		Unit- II	91.90	220kV CHP - Birpara Fdr- II	87.52	+	
		Unit- III	91.49	220kV CHP - Malbase Fdr- III	113.91	+	
		Unit- IV	91.61	220kV CHP - Semtokha Fdr- IV	-42.67	-	
		-	-	220kV Malbase - Birpara Fdr.	56.72	+	
		-	-	66kV CHP - Chumdo Fdr.	5.15	+	
		-	-	66kV CHP - Gedu Fdr.	8.06	+	
		-	-	3x3MVA, 66/11kV TFR	1.45	+	
		Total	275.00	Error at Station/Auxiliary Consumption/Losses	14.04		
3	24MW BHP (U/S)	Unit- I	11.81	220kV BHP - Semtokha Fdr.	64.86	+	
		Unit- II	11.81	66kV BHP - Lobeyasa Fdr.	19.93	+	
		Total	23.62	220kV BHP - Tsirang Fdr.	-20.48	-	
	40MW BHP (L/S)	Unit- I	21.02	5MVA, 66/11kV TFR	0.71	+	
		Unit- II	20.21	30MVA ICT, 220/66kV			
Total	41.23	Error at Station/Auxiliary Consumption/Losses	0.17				
4	126MW DHPC	Unit-I	63.31	220kV DHPC - Tsirang Fdr.	107.91	+	
		Unit-II	45.15	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	108.46	Error at Station/Auxiliary Consumption/Losses	0.55		
5	60MW KHP	Unit- I	16.74	132kV KHP - Nangkhor Fdr- I	57.31	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.40	132kV KHP - Kilikhar Fdr- II	8.24	+	
		Unit- III	16.66	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.55	132kV Gelephu - Salakati Fdr.	40.47	+	
		-	-	132kV Motanga - Rangia Fdr.	49.40	+	
		-	-	220kV Tsirang - Jigmeling	82.72	+	
		Total	66.35	Error at Station/Auxiliary Consumption/Losses	0.20		

Note: Load summary on September 15, 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	1,568.90	272.96	248.64	1,213.22	24.32
2	Eastern Grid	453.35	60.30	59.00	475.77	1.30
	Total	2,022.25	333.26	307.64	1,688.99	25.62

Note: Load Summary on September 15, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.18	236.86	256.15
2	Eastern Grid	46.42	46.42	57.74
	National	281.60	283.28	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 16, 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	186.05	400kV THP - Siliguri Fdr- I	269.56	+	
		Unit- II	187.50	400kV THP - Siliguri Fdr- II	267.98	+	
		Unit- III	187.73	400kV THP - Siliguri Fdr- IV	261.57	+	
		Unit- IV	186.46	400kV THP - Malbase Fdr- III	304.70	+	
		Unit- V	186.60	400kV Malbase - Siliguri	244.59	+	
		Unit- VI	186.03	-	-	-	
		Total	1,120.37	Error at Station/Auxiliary Consumption/Losses	16.56		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	279.86	+	Unit-III under shutdown. Unit I under break down
		Unit-II	192.48	400kV MHP - Jigmeling Fdr - II	283.46	+	
		Unit-III	179.54	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	191.66	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	563.68	Error at Station/Auxiliary Consumption/Losses	0.36		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	91.12	+	Unit-I under breakdown.
		Unit- II	90.89	220kV CHP - Birpara Fdr- II	91.17	+	
		Unit- III	91.43	220kV CHP - Malbase Fdr- III	143.09	+	
		Unit- IV	91.42	220kV CHP - Semtokha Fdr- IV	-62.90	-	
		-	-	220kV Malbase - Birpara Fdr.	39.72	+	
		-	-	66kV CHP - Chumdo Fdr.	0.82	+	
		-	-	66kV CHP - Gedu Fdr.	8.46	+	
		Total	273.74	Error at Station/Auxiliary Consumption/Losses	1.08		
4	24MW BHP (U/S)	Unit- I	11.81	220kV BHP - Semtokha Fdr.	99.29	+	
		Unit- II	11.81	66kV BHP - Lobeyasa Fdr.	17.75	+	
		Total	23.62	220kV BHP - Tsirang Fdr.	-51.48	-	
	40MW BHP (L/S)	Unit- I	21.06	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	20.21	30MVA ICT, 220/66kV			
		Total	41.27	Error at Station/Auxiliary Consumption/Losses	-1.10		
5	126MW DHPC	Unit-I	63.45	220kV DHPC - Tsirang Fdr.	126.10	+	
		Unit-II	63.19	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.64	Error at Station/Auxiliary Consumption/Losses	0.54		
6	60MW KHP	Unit- I	16.39	132kV KHP - Nangkor Fdr- I	60.79	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.13	132kV KHP - Kilikhar Fdr- II	3.74	+	
		Unit- III	16.46	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.32	132kV Gelephu - Salakati Fdr.	47.62	+	
		-	-	132kV Motanga - Rangia Fdr.	44.20	+	
		-	-	220kV Tsirang - Jigmeling	71.00	+	
		Total	65.30	Error at Station/Auxiliary Consumption/Losses	0.47		

Note: Load summary on September 16, 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	1,585.64	248.93	231.85	1,265.71	17.08
2	Eastern Grid	628.98	44.84	44.01	655.14	0.83
	Total	2,214.62	293.77	275.86	1,920.85	17.91

Note: Load Summary on September 16, 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	35.97	43.90	57.74
	National	257.81	283.57	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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