

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 1, 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	186.85	400kV THP - Siliguri Fdr- I	260.70	+	
		Unit- II	187.57	400kV THP - Siliguri Fdr- II	259.76	+	
		Unit- III	187.23	400kV THP - Siliguri Fdr- IV	252.85	+	
		Unit- IV	186.77	400kV THP - Malbase Fdr- III	332.21	+	
		Unit- V	187.33	400kV Malbase - Siliguri	229.44	+	
		Unit- VI	185.82	-	-	-	
		Total	1,121.57	Error at Station/Auxiliary Consumption/Losses	16.05		
2	720MW MHP	Unit-I	82.60	400kV MHP - Jigmeling Fdr - I	231.20	+	Unit-III under break down
		Unit-II	193.30	400kV MHP - Jigmeling Fdr - II	232.70	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.80	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	471.70	Error at Station/Auxiliary Consumption/Losses	7.80		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	94.62	+	Unit-I under breakdown
		Unit- II	91.87	220kV CHP - Birpara Fdr- II	94.45	+	
		Unit- III	91.63	220kV CHP - Malbase Fdr- III	133.80	+	
		Unit- IV	91.75	220kV CHP - Semtokha Fdr- IV	-63.05	-	
		-	-	220kV Malbase - Birpara Fdr.	52.92	+	
		-	-	66kV CHP - Chumdo Fdr.	4.53	+	
		-	-	66kV CHP - Gedu Fdr.	8.83	+	
		Total	275.25	Error at Station/Auxiliary Consumption/Losses	0.60		
3	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	103.83	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	22.06	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-60.37	-	
	40MW BHP (L/S)	Unit- I	21.02	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	20.21	30MVA ICT, 220/66kV			
Total	41.23	Error at Station/Auxiliary Consumption/Losses	1.32				
4	126MW DHPC	Unit-I	52.36	220kV DHPC - Tsirang Fdr.	111.93	+	
		Unit-II	60.10	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	112.46	Error at Station/Auxiliary Consumption/Losses	0.53		
5	60MW KHP	Unit- I	16.48	132kV KHP - Nangkhor Fdr- I	56.23	+	132kV GEL_SALA line under shutdown.
		Unit-II	16.59	132kV KHP - Kilikhar Fdr- II	9.00	+	
		Unit- III	16.75	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	0.00	+	
		-	-	132kV Motanga - Rangia Fdr.	54.15	+	
		-	-	220kV Tsirang - Jigmeling	46.62	+	
		Total	66.34	Error at Station/Auxiliary Consumption/Losses	0.71		

Note: Load summary on October 01, 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	1,574.11	282.75	266.89	1,244.74	15.86
2	Eastern Grid	538.04	66.61	58.10	518.05	8.51
	Total	2,112.15	349.36	324.99	1,762.79	24.37

Note: Load Summary on October 01, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	223.36	236.53	281.60
2	Eastern Grid	40.94	40.94	62.24
	National	264.30	277.47	343.84

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:	October 2, 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	186.90	400kV THP - Siliguri Fdr- I	373.32	+	400kV THP-Mal Fdr III under AM
		Unit- II	188.20	400kV THP - Siliguri Fdr- II	370.87	+	
		Unit- III	187.67	400kV THP - Siliguri Fdr- IV	360.99	+	
		Unit- IV	186.78	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	186.91	400kV Malbase - Siliguri	1.00	+	
		Unit- VI	185.64	-	-	-	
		Total	1,122.10	Error at Station/Auxiliary Consumption/Losses		16.92	
2	720MW MHP	Unit-I	82.85	400kV MHP - Jigmeling Fdr - I	239.30	+	Unit-III under breakdown.
		Unit-II	193.21	400kV MHP - Jigmeling Fdr - II	232.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.45	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	471.51	Error at Station/Auxiliary Consumption/Losses		0.11	
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	87.73	+	Unit-I under breakdown.
		Unit- II	90.14	220kV CHP - Birpara Fdr- II	87.99	+	
		Unit- III	92.03	220kV CHP - Malbase Fdr- III	187.79	+	
		Unit- IV	90.84	220kV CHP - Semtokha Fdr- IV	-99.30	-	
		-	-	220kV Malbase - Birpara Fdr.	0.33	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.50	-	
		-	-	66kV CHP - Gedu Fdr.	9.53	+	
		Total	273.01	Error at Station/Auxiliary Consumption/Losses		-1.00	
4	24MW BHP (U/S)	Unit- I	11.78	220kV BHP - Semtokha Fdr.	125.47	+	
		Unit- II	11.78	66kV BHP - Lobeyasa Fdr.	18.96	+	
		Total	23.56	220kV BHP - Tsirang Fdr.		-78.29	
	40MW BHP (L/S)	Unit- I	20.97	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	20.19	30MVA ICT, 220/66kV			
		Total	41.16	Error at Station/Auxiliary Consumption/Losses		-1.79	
5	126MW DHPC	Unit-I	50.34	220kV DHPC - Tsirang Fdr.	105.00	+	
		Unit-II	55.08	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	105.42	Error at Station/Auxiliary Consumption/Losses		0.42	
6	60MW KHP	Unit- I	16.56	132kV KHP - Nangkhor Fdr- I	60.83	+	132kV GEL_SALA Fdr under shutdown.
		Unit-II	16.53	132kV KHP - Kilikhar Fdr- II	4.90	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	16.51	132kV Gelephu - Salakati Fdr.	0.00	+	
		-	-	132kV Motanga - Rangia Fdr.	48.90	+	
		-	-	220kV Tsirang - Jigmeling	22.31	+	
		Total	66.02	Error at Station/Auxiliary Consumption/Losses		0.09	

Note: Load summary on October 02, 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	1,565.25	260.71	246.16	1,282.23	14.55
2	Eastern Grid	537.53	39.54	39.34	520.30	0.20
	Total	2,102.78	300.25	285.50	1,802.53	14.75

Note: Load Summary on October 02, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	219.58	264.30	281.60
2	Eastern Grid	30.13	43.55	62.24
	National	249.71	307.85	343.84

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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