

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Date: April 8, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit III,IV & V standby. Unit-I under AM
		Unit- II	137.51	400kV THP - Siliguri Fdr- II	122.12	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	200.44	+	
		Unit- V	99.15	400kV Malbase - Siliguri	94.90	+	
		Unit- VI	90.72				
		Total	327.38	Error At Station/Auxiliary Consumption/Losses	4.82		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	9.93		Unit I & IV under AM.
		Unit- II	67.32	220kV CHP - Birpara Fdr- II	9.70		
		Unit- III	70.25	220kV CHP - Malbase Fdr- III	56.25	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	41.50	+	
				220kV Malbase - Birpara Fdr.	-26.89	-	
				66kV CHP - Chumdo Fdr.	10.69	+	
				66kV CHP - Gedu Fdr.	7.62	+	
				3x3MVA, 66/11kV TFR	1.61	+	
Total	137.57	Error At Station/Auxiliary Consumption/Losses	0.27				
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	10.29	+	Upper & Lower Unit I Standby. □
		Unit- II	6.94	66kV BHP - Lobeysa Fdr.	14.63	+	
		Total	6.94	220kV BHP - Tsirang Fdr.	-5.01	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.78	+	
		Unit- II	13.82	30MVA ICT, 220/66kV			
		Total	13.82	Error At Station/Auxiliary Consumption/Losses	0.07		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	24.01	+	Unit-I under AM
		Unit-II	24.25	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	24.25	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	18.69	+	Unit-I under AM. Unit-III at standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.86	+	
		Unit- III	14.53	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.88	132kV Gelephu - Salakati Fdr.	-17.75	-	
				132kV Motanga - Rangia Fdr.	10.41	+	
				220kV Tsirang - Jigmeling	15.51	+	
		Total	30.41	Error At Station/Auxiliary Consumption/Losses	0.46		

Note: Load summary on April 08, 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	509.96	284.69	279.29	209.76	5.40
2	Eastern Grid	30.41	53.26	52.80	-7.34	0.46
	Total	540.37	337.95	332.09	202.42	5.86

Note: Load Summary on April 08, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	287.05	289.50	304.53
2	Eastern Grid	62.73	62.73	71.59
	National	349.78	352.23	376.12

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	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Date: April 9, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit-I under shutdown. Unit III & IV standby.
		Unit- II	100.02	400kV THP - Siliguri Fdr- II	116.78	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	149.75	+	
		Unit- V	79.24	400kV Malbase - Siliguri	99.84	+	
		Unit- VI	90.79				
		Total	270.05	Error At Station/Auxiliary Consumption/Losses		3.52	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	28.75	+	Unit I & IV under AM.
		Unit- II	90.56	220kV CHP - Birpara Fdr- II	28.86	+	
		Unit- III	91.23	220kV CHP - Malbase Fdr- III	103.39	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	0.45	+	
				220kV Malbase - Birpara Fdr.	-32.74	-	
				66kV CHP - Chumdo Fdr.	6.53	+	
				66kV CHP - Gedu Fdr.	7.87	+	
				3x3MVA, 66/11kV TFR	1.09	+	
		Total	181.79	Error At Station/Auxiliary Consumption/Losses		4.85	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	36.36	+	Upper stage & Lower stage Unit I Standby. □
		Unit- II	7.77	66kV BHP - Lobeysa Fdr.	12.65	+	
		Total	7.77	220kV BHP - Tsirang Fdr.		-25.96	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	15.51	30MVA ICT, 220/66kV			
		Total	15.51	Error At Station/Auxiliary Consumption/Losses		-0.20	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	23.01	+	Unit-I under AM
		Unit-II	23.23	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	23.23	Error At Station/Auxiliary Consumption/Losses		0.22	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	27.89	+	Unit-I under AM.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.12	+	
		Unit- III	15.34	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	15.28	132kV Gelephu - Salakati Fdr.	9.20	+	
				132kV Motanga - Rangia Fdr.	-9.53	-	
				220kV Tsirang - Jigmeling	7.75	+	
		Total	30.62	Error At Station/Auxiliary Consumption/Losses		-1.69	

Note: Load summary on April 09, 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	498.35	249.11	240.72	241.49	8.39
2	Eastern Grid	30.62	38.70	40.39	-0.33	-1.69
	Total	528.97	287.81	281.11	241.16	6.70

Note: Load Summary on April 09, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	266.98	284.66	304.53
2	Eastern Grid	32.21	48.86	71.59
	National	299.19	333.52	376.12

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
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