

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 2, 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 IV & V standby. Unit-I & III under AMP
		Unit- II	168.68	400kV THP - Siliguri Fdr- II	135.15	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	201.70	+	
		Unit- V	0.00	400kV Malbase - Siliguri	108.64	+	
		Unit- VI	172.51				
		Total	341.19	Error At Station/Auxiliary Consumption/Losses	4.34		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	21.30	+	Unit I & IV under AM. 220kV CHP_Birpara Fdr-II under shutdown
		Unit- II	78.53	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	72.33	220kV CHP - Malbase Fdr- III	74.80	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	33.80	+	
				220kV Malbase - Birpara Fdr.	-19.09	-	
				66kV CHP - Chumdo Fdr.	12.00	+	
				66kV CHP - Gedu Fdr.	5.80	+	
				3x3MVA, 66/11kV TFR	1.73	+	
Total	150.86	Error At Station/Auxiliary Consumption/Losses	1.43				
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	25.71	+	Upper & Lower stage Unit I Standby. □
		Unit- II	6.62	66kV BHP - Lobeysa Fdr.	15.64	+	
		Total	6.62	220kV BHP - Tsirang Fdr.	-20.09	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.81	+	
		Unit- II	15.15	30MVA ICT, 220/66kV			
		Total	15.15	Error At Station/Auxiliary Consumption/Losses	-0.30		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.87	+	Unit-I under AM
		Unit-II	18.20	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	18.20	Error At Station/Auxiliary Consumption/Losses	0.33		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	22.01	+	Unit-I under AM.
		Unit-II	10.10	132kV KHP - Kilikhar Fdr- II	8.37	+	
		Unit- III	10.32	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	10.14	132kV Gelephu - Salakati Fdr.	-29.83	-	
				132kV Motanga - Rangia Fdr.	0.67	+	
				220kV Tsirang - Jigmeling	-5.42	-	
		Total	30.56	Error At Station/Auxiliary Consumption/Losses	-0.12		

Note: Load summary on April 02, 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	532.02	291.44	285.64	246.00	5.80
2	Eastern Grid	30.56	54.30	54.42	-29.16	-0.12
	Total	562.58	345.74	340.06	216.84	5.68

Note: Load Summary on April 02, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	294.13	296.67	304.53
2	Eastern Grid	53.22	53.22	71.59
	National	347.35	349.89	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 3, 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 IV & V standby. Unit-I & III under AMP
		Unit- II	70.27	400kV THP - Siliguri Fdr- II	72.81	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	134.65	+	
		Unit- V	0.00	400kV Malbase - Siliguri	53.44	+	
		Unit- VI	140.96				
		Total	211.23	Error At Station/Auxiliary Consumption/Losses		3.77	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	4.50	+	Unit I under AM. Unit-IV Standby. 220kV CHP_Birpara II shutdown
		Unit- II	48.68	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	54.66	220kV CHP - Malbase Fdr- III	68.80	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	14.40	+	
				220kV Malbase - Birpara Fdr.	-45.43	-	
				66kV CHP - Chumdo Fdr.	7.20	+	
				66kV CHP - Gedu Fdr.	6.10	+	
		Total	103.34	Error At Station/Auxiliary Consumption/Losses		1.36	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	25.73	+	Upper & Lower stage Unit I Standby. □
		Unit- II	5.54	66kV BHP - Lobeysa Fdr.	10.97	+	
		Total	5.54	220kV BHP - Tsirang Fdr.		-19.67	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	11.99	30MVA ICT, 220/66kV			
		Total	11.99	Error At Station/Auxiliary Consumption/Losses		0.11	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	20.00	+	Unit-I under AM
		Unit-II	20.21	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	20.21	Error At Station/Auxiliary Consumption/Losses		0.21	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	25.48	+	Unit-I under AM. Unit-IV at standby
		Unit-II	16.32	132kV KHP - Kilikhar Fdr- II	4.26	+	
		Unit- III	13.93	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-16.00	-	
				132kV Motanga - Rangia Fdr.	3.54	+	
				220kV Tsirang - Jigmeling	-1.40	-	
		Total	30.25	Error At Station/Auxiliary Consumption/Losses		0.11	

Note: Load summary on April 03, 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	352.31	268.39	262.94	85.32	5.45
2	Eastern Grid	30.25	41.31	41.20	-12.46	0.11
Total		382.56	309.70	304.14	72.86	5.56

Note: Load Summary on April 03, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	253.30	293.08	304.53
2	Eastern Grid	36.44	71.59	71.59
National		289.74	364.67	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.