

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: 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-II under shutdown. Unit IV standby. Unit-I & III under AMP
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	117.25	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	206.65	+	
		Unit- V	159.09	400kV Malbase - Siliguri	87.67	+	
		Unit- VI	169.94				
		Total	329.03	Error At Station/Auxiliary Consumption/Losses	5.13		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	13.60	+	Unit I & IV under AM. 220kV CHP_Birpara Fdr-II under shutdown
		Unit- II	72.35	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	72.64	220kV CHP - Malbase Fdr- III	49.40	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	61.90	+	
				220kV Malbase - Birpara Fdr.	-17.92	-	
				66kV CHP - Chumdo Fdr.	13.00	+	
				66kV CHP - Gedu Fdr.	5.20	+	
		Total	144.99	Error At Station/Auxiliary Consumption/Losses	0.31		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-3.07	-	Upper & Lower stage Unit I Standby. □
		Unit- II	5.16	66kV BHP - Lobeysa Fdr.	14.50	+	
		Total	5.16	220kV BHP - Tsirang Fdr.	4.48	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.76	+	
		Unit- II	11.17	30MVA ICT, 220/66kV			
		Total	11.17	Error At Station/Auxiliary Consumption/Losses	-0.34		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.99	+	Unit-I under AM
		Unit-II	18.24	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	18.24	Error At Station/Auxiliary Consumption/Losses	0.25		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	11.79	+	Unit-I under AM. Unit-IV at standby.
		Unit-II	11.11	132kV KHP - Kilikhar Fdr- II	10.02	+	
		Unit- III	11.27	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-17.00	-	
				132kV Motanga - Rangia Fdr.	5.36	+	
				220kV Tsirang - Jigmeling	19.95	+	
		Total	22.38	Error At Station/Auxiliary Consumption/Losses	-0.03		

Note: Load summary on April 03, 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	508.59	288.04	282.69	200.60	5.35
2	Eastern Grid	22.38	53.97	54.00	-11.64	-0.03
	Total	530.97	342.01	336.69	188.96	5.32

Note: Load Summary on April 03, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	293.08	293.08	304.53
2	Eastern Grid	71.59	71.59	71.59
	National	364.67	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.

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 4, 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 & III under AMP. Unit II & IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	71.54	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	133.87	+	
		Unit- V	69.10	400kV Malbase - Siliguri	53.79	+	
		Unit- VI	140.64				
		Total	209.74	Error At Station/Auxiliary Consumption/Losses	4.33		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	13.10	+	Unit I under AM. Unit-IV Standby. 220kV CHP_Birpara II shutdown
		Unit- II	61.08	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	58.60	220kV CHP - Malbase Fdr- III	64.90	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	20.80	+	
				220kV Malbase - Birpara Fdr.	-25.71	-	
				66kV CHP - Chumdo Fdr.	7.30	+	
				66kV CHP - Gedu Fdr.	5.90	+	
		Total	119.68	Error At Station/Auxiliary Consumption/Losses	6.51		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	18.40	+	Upper & Lower stage Unit I Standby. □
		Unit- II	5.21	66kV BHP - Lobeysa Fdr.	10.07	+	
		Total	5.21	220kV BHP - Tsirang Fdr.	-11.77	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.38	+	
		Total	11.17	Error At Station/Auxiliary Consumption/Losses	-0.70		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.68	+	Unit-I under AM
		Unit-II	18.01	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	18.01	Error At Station/Auxiliary Consumption/Losses	0.33		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	24.50	+	Unit-I under AM. Unit-IV at standby
		Unit-II	16.24	132kV KHP - Kilikhar Fdr- II	5.05	+	
		Unit- III	13.88	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-11.30	-	
				132kV Motanga - Rangia Fdr.	9.06	+	
				220kV Tsirang - Jigmeling	4.16	+	
		Total	30.12	Error At Station/Auxiliary Consumption/Losses	0.17		

Note: Load summary on April 04, 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	363.81	246.93	236.46	112.72	10.47
2	Eastern Grid	30.12	36.52	36.35	-2.24	0.17
Total		393.93	283.45	272.81	110.48	10.64

Note: Load Summary on April 04, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	266.18	290.77	304.53
2	Eastern Grid	46.44	65.44	71.59
National		312.62	356.21	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.