

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 10, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.68	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit III under AM. Unit IV & V standby.
		Unit- II	98.24	400kV THP - Siliguri Fdr- II	153.09	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	238.84	+	
		Unit- V	0.00	400kV Malbase - Siliguri	121.72	+	
		Unit- VI	131.38				
		Total	396.30	Error At Station/Auxiliary Consumption/Losses	4.37		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	11.01		Unit I & IV under AM.
		Unit- II	67.94	220kV CHP - Birpara Fdr- II	10.92		
		Unit- III	70.19	220kV CHP - Malbase Fdr- III	53.67	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	41.95	+	
				220kV Malbase - Birpara Fdr.	-23.47	-	
				66kV CHP - Chumdo Fdr.	11.96	+	
				66kV CHP - Gedu Fdr.	4.56	+	
				3x3MVA, 66/11kV TFR	1.66	+	
		Total	138.13	Error At Station/Auxiliary Consumption/Losses	2.40		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	8.53	+	Upper & Lower Unit I Standby. □
		Unit- II	6.82	66kV BHP - Lobeysa Fdr.	14.77	+	
		Total	6.82	220kV BHP - Tsirang Fdr.	-3.29	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.79	+	
		Unit- II	14.10	30MVA ICT, 220/66kV			
		Total	14.10	Error At Station/Auxiliary Consumption/Losses	0.12		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.90	+	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	0.33		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	14.04	+	Unit-I under AM.
		Unit-II	10.18	132kV KHP - Kilikhar Fdr- II	11.09	+	
		Unit- III	10.30	5MVA, 132/11kV TFR	0.80	+	
		Unit- IV	10.05	132kV Gelephu - Salakati Fdr.	-17.78	-	
				132kV Motanga - Rangia Fdr.	7.16	+	
				220kV Tsirang - Jigmeling	17.45	+	
		Total	30.53	Error At Station/Auxiliary Consumption/Losses	4.60		

Note: Load summary on April 10, 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	578.58	287.86	280.64	273.27	7.22
2	Eastern Grid	30.53	58.60	54.00	-10.62	4.60
	Total	609.11	346.46	334.64	262.65	11.82

Note: Load Summary on April 10, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	273.77	273.77	304.53
2	Eastern Grid	57.77	57.77	71.59
	National	331.54	331.54	376.12

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:
 - 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.
 - The clocks of all the locations are not synchronized
- 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 11, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	108.31	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit III under AM .Unit IV & V standby.
		Unit- II	98.30	400kV THP - Siliguri Fdr- II	150.16	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	193.19	+	
		Unit- V	0.00	400kV Malbase - Siliguri	128.19	+	
		Unit- VI	141.69				
		Total	348.30	Error At Station/Auxiliary Consumption/Losses	4.95		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	35.82	+	Unit I & IV under AM.
		Unit- II	89.58	220kV CHP - Birpara Fdr- II	35.88	+	
		Unit- III	90.65	220kV CHP - Malbase Fdr- III	97.39	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-3.10	+	
				220kV Malbase - Birpara Fdr.	-16.16	-	
				66kV CHP - Chumdo Fdr.	5.90	+	
				66kV CHP - Gedu Fdr.	6.04	+	
				3x3MVA, 66/11kV TFR	0.90	+	
		Total	180.23	Error At Station/Auxiliary Consumption/Losses	1.40		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	36.84	+	Upper stage & Lower stage Unit I Standby. □
		Unit- II	6.67	66kV BHP - Lobeysa Fdr.	11.16	+	
		Total	6.67	220kV BHP - Tsirang Fdr.	-27.09	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	14.06	30MVA ICT, 220/66kV			
		Total	14.06	Error At Station/Auxiliary Consumption/Losses	-0.57		
4	DHPC	Unit-I	22.05	220kV DHPC - Tsirang Fdr.	22.56	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	22.05	Error At Station/Auxiliary Consumption/Losses	-0.51		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	34.32	+	Unit-I under AM.
		Unit-II	13.03	132kV KHP - Kilikhar Fdr- II	4.61	+	
		Unit- III	13.52	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.99	132kV Gelephu - Salakati Fdr.	13.53	+	
				132kV Motanga - Rangia Fdr.	-13.48	-	
				220kV Tsirang - Jigmeling	-6.59	-	
		Total	39.54	Error At Station/Auxiliary Consumption/Losses	0.31		

Note: Load summary on April 11, 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	571.31	244.01	238.74	333.89	5.27
2	Eastern Grid	39.54	32.90	32.59	0.05	0.31
	Total	610.85	276.91	271.33	333.94	5.58

Note: Load Summary on April 11, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	264.33	296.11	304.53
2	Eastern Grid	35.43	53.05	71.59
	National	299.76	349.16	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.