

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: 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 III,IV & V standby. Unit-I under AM
		Unit- II	165.02	400kV THP - Siliguri Fdr- II	122.08	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	208.98	+	
		Unit- V	0.00	400kV Malbase - Siliguri	92.72	+	
		Unit- VI	170.25				
		Total	335.27	Error At Station/Auxiliary Consumption/Losses	4.21		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	9.28	+	Unit I & IV under AM. □
		Unit- II	75.85	220kV CHP - Birpara Fdr- II	9.38	+	
		Unit- III	72.29	220kV CHP - Malbase Fdr- III	49.24	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	59.34	+	
				220kV Malbase - Birpara Fdr.	-24.41	-	
				66kV CHP - Chumdo Fdr.	12.60	+	
				66kV CHP - Gedu Fdr.	5.40	+	
				3x3MVA, 66/11kV TFR	1.78	+	
		Total	148.14	Error At Station/Auxiliary Consumption/Losses	1.12		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-2.61	-	Upper & Lower stage Unit I Standby. □
		Unit- II	4.97	66kV BHP - Lobeysa Fdr.	13.81	+	
		Total	4.97	220kV BHP - Tsirang Fdr.	3.00	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.81	+	
		Unit- II	10.72	30MVA ICT, 220/66kV			
		Total	10.72	Error At Station/Auxiliary Consumption/Losses	0.68		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	16.93	+	Unit-I under AM
		Unit-II	17.22	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.22	Error At Station/Auxiliary Consumption/Losses	0.29		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	13.11	+	Unit-I under AM. Unit-IV at standby.
		Unit-II	12.33	132kV KHP - Kilikhar Fdr- II	10.45	+	
		Unit- III	12.11	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-19.51	-	
				132kV Motanga - Rangia Fdr.	2.54	+	
				220kV Tsirang - Jigmeling	16.90	+	
		Total	24.44	Error At Station/Auxiliary Consumption/Losses	0.18		

Note: Load summary on April 04, 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	516.32	290.37	284.07	209.05	6.30
2	Eastern Grid	24.44	58.31	58.13	-16.97	0.18
	Total	540.76	348.68	342.20	192.08	6.48

Note: Load Summary on April 04, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	287.53	290.77	304.53
2	Eastern Grid	65.44	65.44	71.59
	National	352.97	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.

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: April 5, 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	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00	+	Fdr IV Idle charged. Fdr I Standby. Unit-II under shutdown. Unit III,IV & V standby. Unit-I under AM
		Unit- II	100.04	400kV THP - Siliguri Fdr- II	96.01	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	170.78	+	
		Unit- V	0.00	400kV Malbase - Siliguri	72.92	+	
		Unit- VI	172.25				
		Total	272.29	Error At Station/Auxiliary Consumption/Losses	5.50		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	3.65	+	Unit I & IV under AM.
		Unit- II	44.85	220kV CHP - Birpara Fdr- II	3.58	+	
		Unit- III	44.51	220kV CHP - Malbase Fdr- III	59.36	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	8.74	+	
				220kV Malbase - Birpara Fdr.	-39.35	-	
				66kV CHP - Chumdo Fdr.	6.30	+	
				66kV CHP - Gedu Fdr.	6.20	+	
				3x3MVA, 66/11kV TFR	1.15	+	
		Total	89.36	Error At Station/Auxiliary Consumption/Losses	0.38		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	27.97	+	Upper & Lower stage Unit I Standby. □
		Unit- II	5.13	66kV BHP - Lobeysa Fdr.	10.75	+	
		Total	5.13	220kV BHP - Tsirang Fdr.	-22.76	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.36	+	
		Total	11.06	Error At Station/Auxiliary Consumption/Losses	-0.13		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	17.19	+	Unit-I under AM
		Unit-II	17.49	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.49	Error At Station/Auxiliary Consumption/Losses	0.30		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	19.04	+	Unit-I under AM. Unit-IV at standby
		Unit-II	10.38	132kV KHP - Kilikhar Fdr- II	3.91	+	
		Unit- III	13.18	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-2.45	-	
				132kV Motanga - Rangia Fdr.	-16.18	-	
				220kV Tsirang - Jigmeling	-2.32	-	
		Total	23.56	Error At Station/Auxiliary Consumption/Losses	0.21		

Note: Load summary on April 05, 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	395.33	260.84	254.79	136.81	6.05
2	Eastern Grid	23.56	39.87	39.66	-18.63	0.21
	Total	418.89	300.71	294.45	118.18	6.26

Note: Load Summary on April 05, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	267.75	287.64	304.53
2	Eastern Grid	48.38	59.69	71.59
	National	316.13	347.33	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.