

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 23, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	146.81	400kV THP - Siliguri Fdr- I	86.48	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 14/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	85.65	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.95	400kV THP - Malbase Fdr- III	171.47	+	
		Unit- V	129.13	400kV Malbase - Siliguri	62.61	+	
		Unit- VI	0.00				
		Total	346.89	Error At Station/Auxiliary Consumption/Losses	3.29		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	18.14	+	Unit-I under AM. Unit-III standby
		Unit- II	85.30	220kV CHP - Birpara Fdr- II	18.02	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	61.21	+	
		Unit- IV	83.60	220kV CHP - Semtokha Fdr- IV	52.34	+	
				220kV Malbase - Birpara Fdr.	-16.70	-	
				66kV CHP - Chumdo Fdr.	11.27	+	
				66kV CHP - Gedu Fdr.	4.85	+	
				3x3MVA, 66/11kV TFR	1.44	+	
		Total	168.90	Error At Station/Auxiliary Consumption/Losses	1.63		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-5.37	-	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	4.96	66kV BHP - Lobeysa Fdr.	13.00	+	
		Total	4.96	220kV BHP - Tsirang Fdr.	7.71	+	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.78	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.43	Error At Station/Auxiliary Consumption/Losses	1.27		
4	DHPC	Unit-I	17.77	220kV DHPC - Tsirang Fdr.	17.50	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.77	Error At Station/Auxiliary Consumption/Losses	0.27		
5	KHP	Unit- I	15.77	132kV KHP - Nangkhor Fdr- I	20.38	+	Unit-II & III Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	10.08	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.34	132kV Gelephu - Salakati Fdr.	-16.09	-	
				132kV Motanga - Rangia Fdr.	7.88	+	
				220kV Tsirang - Jigmeling	23.64	+	
		Total	31.11	Error At Station/Auxiliary Consumption/Losses	0.25		

Note: Load summary on April 23, 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	550.95	273.11	266.65	254.20	6.46
2	Eastern Grid	31.11	62.96	62.71	-8.21	0.25
	Total	582.06	336.07	329.36	245.99	6.71

Note: Load Summary on April 23, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	263.22	263.22	304.53
2	Eastern Grid	47.25	47.25	71.59
	National	310.47	310.47	376.12

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 24, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	68.70	400kV THP - Siliguri Fdr- I	72.47	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 14/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	71.57	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	70.46	400kV THP - Malbase Fdr- III	131.99	+	
		Unit- V	138.56	400kV Malbase - Siliguri	54.23	+	
		Unit- VI	0.00				
		Total	277.72	Error At Station/Auxiliary Consumption/Losses	1.69		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	18.22	+	Unit-I under AM. Unit-III Standby
		Unit- II	69.56	220kV CHP - Birpara Fdr- II	18.46	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	74.26	+	
		Unit- IV	69.98	220kV CHP - Semtokha Fdr- IV	15.71	+	
				220kV Malbase - Birpara Fdr.	-26.58	-	
				66kV CHP - Chumdo Fdr.	5.85	+	
				66kV CHP - Gedu Fdr.	5.85	+	
		Total	139.54	Error At Station/Auxiliary Consumption/Losses	0.28		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	14.45	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby.
		Unit- II	4.99	66kV BHP - Lobeysa Fdr.	9.14	+	
		Total	4.99	220kV BHP - Tsirang Fdr.	-7.57	-	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.36	+	
		Total	12.43	Error At Station/Auxiliary Consumption/Losses	1.04		
4	DHPC	Unit-I	16.73	220kV DHPC - Tsirang Fdr.	16.49	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00	+	
				5MVA, 220/33kV TFR	0.00	+	
		Total	16.73	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	32.72	+	Unit-II & III Standby
		Unit-II	12.41	132kV KHP - Kilikhar Fdr- II	3.75	+	
		Unit- III	12.57	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	12.23	132kV Gelephu - Salakati Fdr.	-12.15	-	
				132kV Motanga - Rangia Fdr.	9.10	+	
				220kV Tsirang - Jigmeling	6.32	+	
		Total	37.21	Error At Station/Auxiliary Consumption/Losses	0.54		

Note: Load summary on April 24, 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	451.41	236.72	233.47	208.37	3.25
2	Eastern Grid	37.21	46.58	46.04	-3.05	0.54
	Total	488.62	283.30	279.51	205.32	3.79

Note: Load Summary on April 24, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	232.90	256.36	304.53
2	Eastern Grid	29.90	45.94	71.59
	National	262.80	302.30	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.
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