

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: April 28, 2019
Hours: 4/26/2019 19:06

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	176.02	400kV THP - Siliguri Fdr- I	159.53	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	157.08	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	178.27	400kV THP - Malbase Fdr- III	210.25	+	
		Unit- V	177.50	400kV Malbase - Siliguri	137.68	+	
		Unit- VI	0.00				
		Total	531.79	Error At Station/Auxiliary Consumption/Losses	4.93		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	50.27	+	Unit-I under AM.
		Unit- II	89.43	220kV CHP - Birpara Fdr- II	52.00	+	
		Unit- III	88.75	220kV CHP - Malbase Fdr- III	102.71	+	
		Unit- IV	87.56	220kV CHP - Semtokha Fdr- IV	42.74	+	
				220kV Malbase - Birpara Fdr.	1.87	+	
				66kV CHP - Chumdo Fdr.	9.67	+	
				66kV CHP - Gedu Fdr.	6.88	+	
				3x3MVA, 66/11kV TFR	1.30	+	
		Total	265.74	Error At Station/Auxiliary Consumption/Losses	0.17		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-0.90	-	Upper Stage Unit-I in standby. Lower Stage Unit-II in standby.
		Unit- II	5.72	66kV BHP - Lobeysa Fdr.	11.39	+	
		Total	5.72	220kV BHP - Tsirang Fdr.	6.97	+	
	BHP (L/S)	Unit- I	12.04	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.04	Error At Station/Auxiliary Consumption/Losses	-0.42		
4	DHPC	Unit-I	17.29	220kV DHPC - Tsirang Fdr.	17.09	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.29	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	13.07	132kV KHP - Nangkhor Fdr- I	40.14	+	
		Unit-II	13.31	132kV KHP - Kilikhar Fdr- II	9.94	+	
		Unit- III	12.28	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	12.48	132kV Gelephu - Salakati Fdr.	-8.66	-	
				132kV Motanga - Rangia Fdr.	17.06	+	
				220kV Tsirang - Jigmeling	17.95	+	
		Total	51.14	Error At Station/Auxiliary Consumption/Losses	0.66		

Note: Load summary on April 28, 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	832.58	256.20	251.32	558.43	4.88
2	Eastern Grid	51.14	60.69	60.03	8.40	0.66
	Total	883.72	316.89	311.35	566.83	5.54

Note: Load Summary on April 28, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	183.66	187.37	304.53
2	Eastern Grid	47.94	47.94	71.59
	National	231.60	235.31	376.12

NOTES KHP LOADS COLLECTED FROM SITE

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 29, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	181.64	400kV THP - Siliguri Fdr- I	173.64	+	Unit-III & VI under AM. Unit-II standby. 400kV THP_SIL IV under maintenance.(13/04/19 till 04/05/19)
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	170.57	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	184.03	400kV THP - Malbase Fdr- III	193.73	+	
		Unit- V	178.42	400kV Malbase - Siliguri	156.78	+	
		Unit- VI	0.00				
		Total	544.09	Error At Station/Auxiliary Consumption/Losses	6.15		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	59.86	+	Unit-I under AM.
		Unit- II	91.87	220kV CHP - Birpara Fdr- II	59.91	+	
		Unit- III	91.76	220kV CHP - Malbase Fdr- III	136.17	+	
		Unit- IV	91.64	220kV CHP - Semtokha Fdr- IV	2.16	+	
				220kV Malbase - Birpara Fdr.	-6.34	-	
				66kV CHP - Chumdo Fdr.	4.62	+	
				66kV CHP - Gedu Fdr.	7.34	+	
				3x3MVA, 66/11kV TFR	0.85	+	
		Total	275.27	Error At Station/Auxiliary Consumption/Losses	4.36		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	28.21	+	Upper Stage Unit-I at standby. Lower stage Unit-II Standby. □
		Unit- II	6.80	66kV BHP - Lobeysa Fdr.	10.63	+	
		Total	6.80	220kV BHP - Tsirang Fdr.	-16.26	+	
	BHP (L/S)	Unit- I	12.43	5MVA, 66/11kV TFR	0.87	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	12.43	Error At Station/Auxiliary Consumption/Losses	-4.22		
4	DHPC	Unit-I	14.40	220kV DHPC - Tsirang Fdr.	20.07	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	14.40	Error At Station/Auxiliary Consumption/Losses	-5.67		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	61.42	+	
		Unit-II	16.72	132kV KHP - Kilikhar Fdr- II	4.00	+	
		Unit- III	16.37	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.44	132kV Gelephu - Salakati Fdr.	-1.15	-	
				132kV Motanga - Rangia Fdr.	26.55	+	
				220kV Tsirang - Jigmeling	-1.80	+	
		Total	66.03	Error At Station/Auxiliary Consumption/Losses	0.31		

Note: Load summary on April 29, 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	852.99	240.37	239.75	614.42	0.62
2	Eastern Grid	66.03	38.83	38.52	25.40	0.31
	Total	919.02	279.20	278.27	639.82	0.93

Note: Load Summary on April 29, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	167.99	193.88	304.53
2	Eastern Grid	43.41	61.26	71.59
	National	211.40	255.14	376.12

NOTES KHP LOADS COLLECTED FROM SITE

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.