

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

Date: April 21, 2018
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		Unit-III under annual maintenance. Unit-IV Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown
		Unit- II	69.48	400kV THP - Siliguri Fdr- II	65.57	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	60.48	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	177.42	+	
		Unit- V	168.57	400kV Malbase - Siliguri	37.38	+	
		Unit- VI	69.90				
		Total	307.95	Error At Station/Auxiliary Consumption/Losses	4.48		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I under annual maintenance . Unit III under shutdown.
		Unit- II	54.04	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	26.75	+	
		Unit- IV	67.63	220kV CHP - Semtokha Fdr- IV	69.37	+	
				220kV Malbase - Birpara Fdr.	-16.83	-	
				66kV CHP - Chumdo Fdr.	9.02	+	
				66kV CHP - Gedu Fdr.	9.45	+	
		Total	121.67	Error At Station/Auxiliary Consumption/Losses	6.18		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-27.15	-	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.23	66kV BHP - Lobeysa Fdr.	10.40	+	
		Total	4.23	220kV BHP - Tsirang Fdr.	29.34	+	
	BHP (L/S)	Unit- I	9.56	5MVA, 66/11kV TFR	0.75	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	9.56	Error At Station/Auxiliary Consumption/Losses	0.45		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 26/04/2018
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	0.00	Error At Station/Auxiliary Consumption/Losses	0.00		
5	KHP	Unit- I	12.35	132kV KHP - Nangkhor Fdr- I	30.89	+	Unit-II shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.57	+	
		Unit- III	16.10	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	13.06	132kV Gelephu - Salakati Fdr.	-9.66	-	
				132kV Motanga - Rangia Fdr.	21.05	+	
				220kV Tsirang - Jigmeling	26.61	+	
		Total	41.51	Error At Station/Auxiliary Consumption/Losses	0.55		

Note: Load summary on April 21, 2018 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	443.41	270.20	259.09	146.60	11.11
2	Eastern Grid	41.51	56.73	56.18	11.39	0.55
	Total	484.92	326.93	315.27	157.99	11.66

Note: Load Summary on April 21, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	248.74	263.50	279.08
2	Eastern Grid	59.41	59.41	63.98
	National	308.15	322.91	338.53

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)
24-Feb-18	18:34hrs	375.23

Date: April 22, 2018
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		Unit-III under annual maintenance. Unit-II & IV Standby. Unit-I under breakdown. 400kV THP-SIL fdr I breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	55.90	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	52.23	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	136.55	+	
		Unit- V	119.41	400kV Malbase - Siliguri	35.78	+	
		Unit- VI	130.39				
		Total	249.80	Error At Station/Auxiliary Consumption/Losses	5.12		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	6.49	+	Unit-I& III under annual maintenance.
		Unit- II	61.06	220kV CHP - Birpara Fdr- II	6.47	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	55.77	+	
		Unit- IV	61.97	220kV CHP - Semtokha Fdr- IV	30.41	+	
				220kV Malbase - Birpara Fdr.	-31.90	-	
				66kV CHP - Chumdo Fdr.	10.56	+	
				66kV CHP - Gedu Fdr.	9.50	+	
		Total	123.03	Error At Station/Auxiliary Consumption/Losses	3.19		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-7.72	-	(U/S) Unit I & (L/S) Unit I Standby
		Unit- II	4.26	66kV BHP - Lobeysa Fdr.	7.27	+	
		Total	4.26	220kV BHP - Tsirang Fdr.	13.13	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.59	+	
		Unit- II	9.17	30MVA ICT, 220/66kV			
		Total	9.17	Error At Station/Auxiliary Consumption/Losses	0.16		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 26/04/2018
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	0.00	Error At Station/Auxiliary Consumption/Losses	0.00		
5	KHP	Unit- I	13.26	132kV KHP - Nangkhor Fdr- I	37.71	+	Unit-II shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.40	+	
		Unit- III	16.21	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	13.33	132kV Gelephu - Salakati Fdr.	-6.17	-	
				132kV Motanga - Rangia Fdr.	23.42	+	
				220kV Tsirang - Jigmeling	12.47	+	
		Total	42.80	Error At Station/Auxiliary Consumption/Losses	0.39		

Note: Load summary on April 22, 2018 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	386.26	248.82	240.35	124.97	8.47
2	Eastern Grid	42.80	38.02	37.63	17.25	0.39
	Total	429.06	286.84	277.98	142.22	8.86

Note: Load Summary on April 22, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	236.62	263.50	279.08
2	Eastern Grid	38.21	53.05	63.98
	National	274.83	316.55	338.53

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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