

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 16, 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 & 400kV THP_SIL fdr.IV standby.
		Unit- II	89.51	400kV THP - Siliguri Fdr- II	37.15	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	149.37	+	
		Unit- V	0.00	400kV Malbase - Siliguri	8.77	+	
		Unit- VI	99.58				
		Total	189.09	Error At Station/Auxiliary Consumption/Losses	2.57		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-15.78	-	Unit-I & IV under annual maintenance
		Unit- II	34.61	220kV CHP - Birpara Fdr- II	-15.80	-	
		Unit- III	31.37	220kV CHP - Malbase Fdr- III	8.25	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	68.09	+	
				220kV Malbase - Birpara Fdr.	-32.33	-	
				66kV CHP - Chumdo Fdr.	9.94	+	
				66kV CHP - Gedu Fdr.	8.53	+	
		Total	65.98	Error At Station/Auxiliary Consumption/Losses	1.84		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-22.10	-	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.03	66kV BHP - Lobeysa Fdr.	10.58	+	
		Total	4.03	220kV BHP - Tsirang Fdr.	23.51	+	
	BHP (L/S)	Unit- I	9.56	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	9.56	Error At Station/Auxiliary Consumption/Losses	0.68		
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	13.35	132kV KHP - Nangkhor Fdr- I	20.88	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.54	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-20.22	-	
				132kV Motanga - Rangia Fdr.	11.16	+	
				220kV Tsirang - Jigmeling	20.78	+	
		Total	29.85	Error At Station/Auxiliary Consumption/Losses	1.13		

Note: Load summary on April 16, 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	268.66	265.87	260.78	-17.99	5.09
2	Eastern Grid	29.85	59.69	58.56	-9.06	1.13
	Total	298.51	325.56	319.34	-27.05	6.22

Note: Load Summary on April 16, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.83	261.28	279.08
2	Eastern Grid	56.13	56.80	63.98
	National	311.96	318.08	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 17, 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-IV& V Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown. 400kV THP_SIL IV Standby.
		Unit- II	69.82	400kV THP - Siliguri Fdr- II	43.15	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	122.70	+	
		Unit- V	0.00	400kV Malbase - Siliguri	22.73	+	
		Unit- VI	99.55				
		Total	169.37	Error At Station/Auxiliary Consumption/Losses	3.52		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	1.06	+	Unit-I & IV under annual maintenance.
		Unit- II	42.81	220kV CHP - Birpara Fdr- II	1.30	+	
		Unit- III	44.51	220kV CHP - Malbase Fdr- III	49.56	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	17.79	+	
				220kV Malbase - Birpara Fdr.	-36.02	-	
				66kV CHP - Chumdo Fdr.	3.72	+	
				66kV CHP - Gedu Fdr.	12.09	+	
		Total	87.32	Error At Station/Auxiliary Consumption/Losses	1.28		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	12.81	-	(U/S) Unit I& (L/S) Unit I Standby
		Unit- II	4.78	66kV BHP - Lobeysa Fdr.	8.95	+	
		Total	4.78	220kV BHP - Tsirang Fdr.	-5.81	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.41	+	
		Unit- II	11.52	30MVA ICT, 220/66kV			
		Total	11.52	Error At Station/Auxiliary Consumption/Losses	-0.06		
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	14.17	132kV KHP - Nangkhor Fdr- I	40.47	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	2.89	+	
		Unit- III	16.33	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.07	132kV Gelephu - Salakati Fdr.	5.00	+	
				132kV Motanga - Rangia Fdr.	-15.35	-	
				220kV Tsirang - Jigmeling	9.00	+	
		Total	44.57	Error At Station/Auxiliary Consumption/Losses	0.91		

Note: Load summary on April 17, 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	272.99	231.77	227.03	32.22	4.74
2	Eastern Grid	44.57	63.92	63.01	-10.35	0.91
	Total	317.56	295.69	290.04	21.87	5.65

Note: Load Summary on April 17, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	56.58	260.96	279.08
2	Eastern Grid	46.17	59.01	63.98
	National	102.75	319.97	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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