

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: April 26, 2018
Hours: 19:00 Hours

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

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 and V under break down. 400kV THP-SIL fdr I breakdown .400kV Malbase-Siliguri under shutdown.
		Unit- II	77.97	400kV THP - Siliguri Fdr- II	29.38	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	27.66	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	138.36	+	
		Unit- V	0.00	400kV Malbase - Siliguri	0.00	+	
		Unit- VI	119.17				
		Total	197.14	Error At Station/Auxiliary Consumption/Losses	1.74		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I under annual maintenance & unit-II under standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	54.01	220kV CHP - Malbase Fdr- III	15.61	+	
		Unit- IV	53.57	220kV CHP - Semtokha Fdr- IV	71.60	+	
				220kV Malbase - Birpara Fdr.	-14.24	-	
				66kV CHP - Chumdo Fdr.	17.41	+	
				66kV CHP - Gedu Fdr.	2.92	+	
				3x3MVA, 66/11kV TFR	0.90	+	
		Total	107.58	Error At Station/Auxiliary Consumption/Losses	-0.86		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-30.90	+	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.10	66kV BHP - Lobeysa Fdr.	9.06	+	
		Total	4.10	220kV BHP - Tsirang Fdr.	34.46	+	
	BHP (L/S)	Unit- I	8.50	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	8.50	Error At Station/Auxiliary Consumption/Losses	-0.91		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 30/04/2018
		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	12.33	132kV KHP - Nangkhor Fdr- I	17.91	+	Unit-II shutdown and unit IV on standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.00	+	
		Unit- III	15.52	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-15.68	+	
				132kV Motanga - Rangia Fdr.	18.25	+	
				220kV Tsirang - Jigmeling	30.33	+	
		Total	27.85	Error At Station/Auxiliary Consumption/Losses	0.54		

Note: Load summary on April 26, 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	317.32	244.19	244.22	42.80	-0.03
2	Eastern Grid	27.85	55.61	55.07	2.57	0.54
	Total	345.17	299.80	299.29	45.37	0.51

Note: Load Summary on April 26, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	267.09	267.09	279.08
2	Eastern Grid	56.84	56.84	63.98
	National	323.93	323.93	338.53

Notes:-

- 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:
 - 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.
 - The clocks of all the locations are not synchronized
- 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 27, 2018
Hours: 09:00 Hours

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

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 and V under breakdown. .400kV THP-SIL fdr I breakdown. □
		Unit- II	78.91	400kV THP - Siliguri Fdr- II	36.73	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	32.23	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	115.87	+	
		Unit- V	0.00	400kV Malbase - Siliguri	18.57	+	
		Unit- VI	110.11				
		Total	189.02	Error At Station/Auxiliary Consumption/Losses	4.19		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	5.69	+	Unit-I under Annual Maintenance and unit-II under standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	5.49	+	
		Unit- III	45.33	220kV CHP - Malbase Fdr- III	31.15	+	
		Unit- IV	45.13	220kV CHP - Semtokha Fdr- IV	32.04	+	
				220kV Malbase - Birpara Fdr.	-14.09	-	
				66kV CHP - Chumdo Fdr.	12.30	+	
				66kV CHP - Gedu Fdr.	1.71	+	
				3x3MVA, 66/11kV TFR	0.54	+	
		Total	90.46	Error At Station/Auxiliary Consumption/Losses	1.54		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-3.92	-	(U/S) Unit I Standby.BHP lower stage units and 220kV switchyard under shutdown(0800Hrs-1800Hrs)
		Unit- II	4.50	66kV BHP - Lobeysa Fdr.	8.09	+	
		Total	4.50	220kV BHP - Tsirang Fdr.	0.00	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.41	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
Total	0.00	Error At Station/Auxiliary Consumption/Losses	-0.08				
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	0.00		DHPC units under shutdown till 30/04/2018
		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	16.51	132kV KHP - Nangkhor Fdr- I	28.25	+	Unit-II shutdown.Unit-III standby.220kV Tsirang-Jigmeling line tripped at 08:50Hrs(Distance relay operated).
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.30	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.45	132kV Gelephu - Salakati Fdr.	-26.49	-	
				132kV Motanga - Rangia Fdr.	16.88	+	
				220kV Tsirang - Jigmeling	0.00	+	
		Total	32.96	Error At Station/Auxiliary Consumption/Losses	0.01		

Note: Load summary on April 27, 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	283.98	199.36	193.71	84.62	5.65
2	Eastern Grid	32.96	42.57	42.56	-9.61	0.01
	Total	316.94	241.93	236.27	75.01	5.66

Note: Load Summary on April 27, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	254.23	271.89	279.08
2	Eastern Grid	41.18	48.40	63.98
	National	295.41	320.29	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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2. This report is generated to give an idea of the generation & load flow for the system at a particular instant.