

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 10, 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 & II Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown & 400kV THP_SIL fdr.IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	18.76	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	138.25	+	
		Unit- V	79.78	400kV Malbase - Siliguri	-9.91	-	
		Unit- VI	80.01				
		Total	159.79	Error At Station/Auxiliary Consumption/Losses	2.78		
2	CHP	Unit- I	29.87	220kV CHP - Birpara Fdr- I	-10.12	-	Unit-II & IV under annual maintenance
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-9.91	-	
		Unit- III	44.49	220kV CHP - Malbase Fdr- III	2.93	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	77.35	+	
				220kV Malbase - Birpara Fdr.	-18.79	-	
				66kV CHP - Chumdo Fdr.	0.00		
				66kV CHP - Gedu Fdr.	11.11	+	
				3x3MVA, 66/11kV TFR	1.05	+	
		Total	74.36	Error At Station/Auxiliary Consumption/Losses	1.95		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-21.26	-	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.45	66kV BHP - Lobeysa Fdr.	12.07	+	
		Total	4.45	220kV BHP - Tsirang Fdr.	21.51	+	
	BHP (L/S)	Unit- I	9.19	5MVA, 66/11kV TFR	1.10	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	9.19	Error At Station/Auxiliary Consumption/Losses	0.22		
4	DHPC	Unit-I	15.01	220kV DHPC - Tsirang Fdr.	14.76	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.20	+	
		Total	15.01	Error At Station/Auxiliary Consumption/Losses	0.05		
5	KHP	Unit- I	15.42	132kV KHP - Nangkhor Fdr- I	21.22	+	Unit-III & IV Standby.
		Unit-II	15.85	132kV KHP - Kilikhar Fdr- II	8.90	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-5.40	-	
				132kV Motanga - Rangia Fdr.	18.79	+	
				220kV Tsirang - Jigmeling	33.62	+	
		Total	31.27	Error At Station/Auxiliary Consumption/Losses	0.65		

Note: Load summary on April 10, 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	262.80	259.15	254.15	-29.97	5.00
2	Eastern Grid	31.27	51.50	50.85	13.39	0.65
	Total	294.07	310.65	305.00	-16.58	5.65

Note: Load Summary on April 10, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	211.18	221.88	279.08
2	Eastern Grid	56.83	56.83	63.98
	National	268.01	278.71	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 11, 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& II Standby Unit-I under break down. 400kV THP-SIL fdr I breakdown. 400kV THP_SIL IV Standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	48.01	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	128.21	+	
		Unit- V	99.14	400kV Malbase - Siliguri	25.09	+	
		Unit- VI	80.22				
		Total	179.36	Error At Station/Auxiliary Consumption/Losses		3.14	
2	CHP	Unit- I	41.18	220kV CHP - Birpara Fdr- I	-1.12	-	Unit-II & IV under annual maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-1.13	-	
		Unit- III	45.01	220kV CHP - Malbase Fdr- III	42.06	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	31.71	+	
				220kV Malbase - Birpara Fdr.	-33.74	-	
				66kV CHP - Chumdo Fdr.	0.00		
				66kV CHP - Gedu Fdr.	12.78	+	
				3x3MVA, 66/11kV TFR	0.72	+	
		Total	86.19	Error At Station/Auxiliary Consumption/Losses		1.17	
3	BHP (U/S)	Unit- I	4.36	220kV BHP - Semtokha Fdr.	8.04	+	(U/S) Unit II & (L/S) Unit II Standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	9.67	+	
		Total	4.36	220kV BHP - Tsirang Fdr.		-8.50	
	BHP (L/S)	Unit- I	4.46	5MVA, 66/11kV TFR	0.42	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	4.46	Error At Station/Auxiliary Consumption/Losses		-0.81	
4	DHPC	Unit-I	22.00	220kV DHPC - Tsirang Fdr.	21.70	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	22.00	Error At Station/Auxiliary Consumption/Losses		0.30	
5	KHP	Unit- I	16.65	132kV KHP - Nangkhor Fdr- I	28.87	+	Unit-IV standby Unit-III under maintenance.
		Unit-II	16.71	132kV KHP - Kilikhar Fdr- II	3.80	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-3.32	-	
				132kV Motanga - Rangia Fdr.	15.50	+	
				220kV Tsirang - Jigmeling	11.89	+	
		Total	33.36	Error At Station/Auxiliary Consumption/Losses		0.29	

Note: Load summary on April 11, 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	296.37	247.37	243.57	37.11	3.80
2	Eastern Grid	33.36	33.07	32.78	12.18	0.29
	Total	329.73	280.44	276.35	49.29	4.09

Note: Load Summary on April 11, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.25	262.72	279.08
2	Eastern Grid	36.52	60.94	63.98
	National	271.77	323.66	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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