

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 14, 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	97.86	400kV THP - Siliguri Fdr- II	45.11	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	148.18	+	
		Unit- V	0.00	400kV Malbase - Siliguri	18.80	+	
		Unit- VI	99.73				
		Total	197.59	Error At Station/Auxiliary Consumption/Losses	4.30		
2	CHP	Unit- I	48.78	220kV CHP - Birpara Fdr- I	-5.62	-	Unit-II & IV under annual maintenance
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-5.54	-	
		Unit- III	49.49	220kV CHP - Malbase Fdr- III	28.09	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	59.36	+	
				220kV Malbase - Birpara Fdr.	-30.47	-	
				66kV CHP - Chumdo Fdr.	9.53	+	
				66kV CHP - Gedu Fdr.	9.48	+	
				3x3MVA, 66/11kV TFR	1.00	+	
		Total	98.27	Error At Station/Auxiliary Consumption/Losses	1.97		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-13.33	-	(U/S) Unit I & (L/S) Unit I Standby
		Unit- II	4.18	66kV BHP - Lobeysa Fdr.	11.57	+	
		Total	4.18	220kV BHP - Tsirang Fdr.	14.19	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	1.01	+	
		Unit- II	9.53	30MVA ICT, 220/66kV	0.00		
		Total	9.53	Error At Station/Auxiliary Consumption/Losses	0.27		
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	16.57	132kV KHP - Nangkhor Fdr- I	44.00	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.42	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	16.27	132kV Gelephu - Salakati Fdr.	-18.22	-	
				132kV Motanga - Rangia Fdr.	14.06	+	
				220kV Tsirang - Jigmeling	10.00	+	
		Total	49.45	Error At Station/Auxiliary Consumption/Losses	0.33		

Note: Load summary on April 14, 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	309.57	277.29	270.75	22.28	6.54
2	Eastern Grid	49.45	63.61	63.28	-4.16	0.33
	Total	359.02	340.90	334.03	18.12	6.87

Note: Load Summary on April 14, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	274.73	274.73	279.08
2	Eastern Grid	56.50	60.55	63.98
	National	331.23	335.28	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 15, 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	80.75	400kV THP - Siliguri Fdr- II	48.25	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	128.19	+	
		Unit- V	0.00	400kV Malbase - Siliguri	26.71	+	
		Unit- VI	99.09				
		Total	179.84	Error At Station/Auxiliary Consumption/Losses		3.40	
2	CHP	Unit- I	43.23	220kV CHP - Birpara Fdr- I	-6.50	-	Unit-II & IV under annual maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-6.67	-	
		Unit- III	37.53	220kV CHP - Malbase Fdr- III	36.87	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	38.62	+	
				220kV Malbase - Birpara Fdr.	-39.43	-	
				66kV CHP - Chumdo Fdr.	5.85	+	
				66kV CHP - Gedu Fdr.	10.22	+	
				3x3MVA, 66/11kV TFR	0.69	+	
		Total	80.76	Error At Station/Auxiliary Consumption/Losses		1.68	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-4.92	-	(U/S) Unit I& (L/S) Unit I Standby
		Unit- II	3.10	66kV BHP - Lobeysa Fdr.	8.08	+	
		Total	3.10	220kV BHP - Tsirang Fdr.		9.74	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.45	+	
		Unit- II	9.30	30MVA ICT, 220/66kV			
		Total	9.30	Error At Station/Auxiliary Consumption/Losses		-0.95	
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	12.27	132kV KHP - Nangkhor Fdr- I	31.58	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.95	+	
		Unit- III	12.30	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.06	132kV Gelephu - Salakati Fdr.	-10.57	-	
				132kV Motanga - Rangia Fdr.	6.65	+	
				220kV Tsirang - Jigmeling	8.45	+	
		Total	36.63	Error At Station/Auxiliary Consumption/Losses		0.80	

Note: Load summary on April 15, 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	273.00	242.19	238.06	22.36	4.13
2	Eastern Grid	36.63	49.00	48.20	-3.92	0.80
	Total	309.63	291.19	286.26	18.44	4.93

Note: Load Summary on April 15, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	244.50	274.97	279.08
2	Eastern Grid	39.32	59.83	63.98
	National	283.82	334.80	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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