

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 12, 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	45.21	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	150.03	+	
		Unit- V	98.76	400kV Malbase - Siliguri	18.36	+	
		Unit- VI	99.26				
		Total	198.02	Error At Station/Auxiliary Consumption/Losses		2.78	
2	CHP	Unit- I	40.96	220kV CHP - Birpara Fdr- I	-10.90	-	Unit-II & IV under annual maintenance
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-10.89	-	
		Unit- III	46.36	220kV CHP - Malbase Fdr- III	21.99	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	64.45	+	
				220kV Malbase - Birpara Fdr.	-33.81	-	
				66kV CHP - Chumdo Fdr.	10.31	+	
				66kV CHP - Gedu Fdr.	9.15	+	
				3x3MVA, 66/11kV TFR	1.06	+	
		Total	87.32	Error At Station/Auxiliary Consumption/Losses		2.15	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-16.41	-	(U/S) Unit I & (L/S) Unit I Standby
		Unit- II	4.53	66kV BHP - Lobeysa Fdr.	12.34	+	
		Total	4.53	220kV BHP - Tsirang Fdr.		16.93	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.88	+	
		Unit- II	9.36	30MVA ICT, 220/66kV	0.00		
		Total	9.36	Error At Station/Auxiliary Consumption/Losses		0.15	
4	DHPC	Unit-I	16.48	220kV DHPC - Tsirang Fdr.	16.24	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.20	+	
		Total	16.48	Error At Station/Auxiliary Consumption/Losses		0.04	
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	22.77	+	Unit-I Standby & Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.20	+	
		Unit- III	16.35	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	16.32	132kV Gelephu - Salakati Fdr.	-18.47	-	
				132kV Motanga - Rangia Fdr.	11.63	+	
				220kV Tsirang - Jigmeling	30.55	+	
		Total	32.67	Error At Station/Auxiliary Consumption/Losses		0.00	

Note: Load summary on April 12, 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	315.71	277.19	272.07	7.97	5.12
2	Eastern Grid	32.67	70.06	70.06	-6.84	0.00
	Total	348.38	347.25	342.13	1.13	5.12

Note: Load Summary on April 12, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	247.77	258.97	279.08
2	Eastern Grid	60.54	60.54	63.98
	National	308.31	319.51	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 13, 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	65.40	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	131.57	+	
		Unit- V	99.74	400kV Malbase - Siliguri	44.64	+	
		Unit- VI	101.06				
		Total	200.80	Error At Station/Auxiliary Consumption/Losses		3.83	
2	CHP	Unit- I	54.24	220kV CHP - Birpara Fdr- I	6.74	+	Unit-II & IV under annual maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	6.51	+	
		Unit- III	56.24	220kV CHP - Malbase Fdr- III	56.50	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	22.30	+	
				220kV Malbase - Birpara Fdr.	-32.36	-	
				66kV CHP - Chumdo Fdr.	4.56	+	
				66kV CHP - Gedu Fdr.	11.25	+	
				3x3MVA, 66/11kV TFR	0.63	+	
		Total	110.48	Error At Station/Auxiliary Consumption/Losses		1.99	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	9.40	+	(U/S) Unit I& (L/S) Unit I Standby
		Unit- II	4.54	66kV BHP - Lobeysa Fdr.	8.61	+	
		Total	4.54	220kV BHP - Tsirang Fdr.		-4.05	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	9.63	30MVA ICT, 220/66kV			
		Total	9.63	Error At Station/Auxiliary Consumption/Losses		-0.18	
4	DHPC	Unit-I	17.02	220kV DHPC - Tsirang Fdr.	16.83	+	Unit-II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.02	Error At Station/Auxiliary Consumption/Losses		0.19	
5	KHP	Unit- I	16.63	132kV KHP - Nangkhor Fdr- I	45.48	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.27	+	
		Unit- III	16.69	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.68	132kV Gelephu - Salakati Fdr.	-15.68	-	
				132kV Motanga - Rangia Fdr.	21.82	+	
				220kV Tsirang - Jigmeling	12.10	+	
		Total	50.00	Error At Station/Auxiliary Consumption/Losses		0.95	

Note: Load summary on April 13, 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	342.47	239.44	233.61	90.93	5.83
2	Eastern Grid	50.00	55.96	55.01	6.14	0.95
	Total	392.47	295.40	288.62	97.07	6.78

Note: Load Summary on April 13, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	231.37	268.30	279.08
2	Eastern Grid	46.77	60.61	63.98
	National	278.14	328.91	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.
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