

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 23, 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-II & IV Standby. Unit-I under break down. 400kV THP-SIL fdr I breakdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	55.82	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	51.81	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	158.56	+	
		Unit- V	128.43	400kV Malbase - Siliguri	29.31	+	
		Unit- VI	139.25				
		Total	267.68	Error At Station/Auxiliary Consumption/Losses	1.49		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I under annual maintenance . Unit III under shutdown.
		Unit- II	61.04	220kV CHP - Birpara Fdr- II	0.00	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	33.67	+	
		Unit- IV	68.78	220kV CHP - Semtokha Fdr- IV	70.49	+	
				220kV Malbase - Birpara Fdr.	-21.83	-	
				66kV CHP - Chumdo Fdr.	15.19	+	
				66kV CHP - Gedu Fdr.	3.27	+	
				3x3MVA, 66/11kV TFR	0.88	+	
		Total	129.82	Error At Station/Auxiliary Consumption/Losses	6.32		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-35.08	-	(U/S) Unit I & (L/S) Unit II Standby
		Unit- II	4.02	66kV BHP - Lobeysa Fdr.	9.22	+	
		Total	4.02	220kV BHP - Tsirang Fdr.	37.47	+	
	BHP (L/S)	Unit- I	8.98	5MVA, 66/11kV TFR	0.94	+	
		Unit- II	0.00	30MVA ICT, 220/66kV	0.00		
		Total	8.98	Error At Station/Auxiliary Consumption/Losses	0.45		
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	0.00	132kV KHP - Nangkhor Fdr- I	23.85	+	Unit I standby. Unit-II shutdown. 132kV GEL_SALA line under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.73	+	
		Unit- III	16.68	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.36	132kV Gelephu - Salakati Fdr.	0.00	+	
				132kV Motanga - Rangia Fdr.	17.07	+	
				220kV Tsirang - Jigmeling	35.00	+	
		Total	33.04	Error At Station/Auxiliary Consumption/Losses	-0.04		

Note: Load summary on April 23, 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	410.50	260.39	252.13	115.11	8.26
2	Eastern Grid	33.04	50.97	51.01	17.07	-0.04
	Total	443.54	311.36	303.14	132.18	8.22

Note: Load Summary on April 23, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	263.85	263.85	279.08
2	Eastern Grid	55.80	55.80	63.98
	National	319.65	319.65	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 24, 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-II & IV Standby. Unit-I under breakdown. 400kV THP-SIL fdr I breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	47.59	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	45.21	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	133.60	+	
		Unit- V	128.73	400kV Malbase - Siliguri	26.53	+	
		Unit- VI	101.11				
		Total	229.84	Error At Station/Auxiliary Consumption/Losses		3.44	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	6.31	+	Unit-I& III under annual maintenance.
		Unit- II	53.87	220kV CHP - Birpara Fdr- II	6.15	+	
		Unit- III	0.00	220kV CHP - Malbase Fdr- III	49.42	+	
		Unit- IV	60.05	220kV CHP - Semtokha Fdr- IV	38.19	+	
				220kV Malbase - Birpara Fdr.	-28.01	-	
				66kV CHP - Chumdo Fdr.	9.18	+	
				66kV CHP - Gedu Fdr.	2.33	+	
				3x3MVA, 66/11kV TFR	0.51	+	
		Total	113.92	Error At Station/Auxiliary Consumption/Losses		1.83	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-14.97	-	(U/S) Unit I & (L/S) Unit I Standby
		Unit- II	4.11	66kV BHP - Lobeysa Fdr.	6.47	+	
		Total	4.11	220kV BHP - Tsirang Fdr.		20.94	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	8.92	30MVA ICT, 220/66kV			
		Total	8.92	Error At Station/Auxiliary Consumption/Losses		0.19	
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	0.00	132kV KHP - Nangkhor Fdr- I	28.96	+	Unit-II shutdown. 132kV Gelephu_Salakati line under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.75	+	
		Unit- III	16.69	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.72	132kV Gelephu - Salakati Fdr.	0.00	+	
				132kV Motanga - Rangia Fdr.	23.10	+	
				220kV Tsirang - Jigmeling	20.00	+	
		Total	33.41	Error At Station/Auxiliary Consumption/Losses		0.40	

Note: Load summary on April 24, 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	356.79	233.01	227.55	103.78	5.46
2	Eastern Grid	33.41	30.31	29.91	23.10	0.40
	Total	390.20	263.32	257.46	126.88	5.86

Note: Load Summary on April 24, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.27	279.08	279.08
2	Eastern Grid	43.32	59.45	63.98
	National	280.59	338.53	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.