

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 6, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	98.12	400kV THP - Siliguri Fdr- I	0.00		Unit-II & IV Standby. 400kV THP-SIL fdr I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	117.33	+	
		Unit- III	118.54	400kV THP - Siliguri Fdr- IV	110.84	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	204.28	+	
		Unit- V	100.02	400kV Malbase - Siliguri	89.73	+	
		Unit- VI	119.24				
		Total	435.92	Error At Station/Auxiliary Consumption/Losses		3.47	
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	36.28	+	Unit-I standby
		Unit- II	70.22	220kV CHP - Birpara Fdr- II	36.24	+	
		Unit- III	66.74	220kV CHP - Malbase Fdr- III	64.48	+	
		Unit- IV	67.09	220kV CHP - Semtokha Fdr- IV	43.23	+	
				220kV Malbase - Birpara Fdr.	10.29	+	
				66kV CHP - Chumdo Fdr.	13.75	+	
				66kV CHP - Gedu Fdr.	5.61	+	
				3x3MVA, 66/11kV TFR	1.16	+	
		Total	204.05	Error At Station/Auxiliary Consumption/Losses		3.30	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-15.44	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	7.15	66kV BHP - Lobeysa Fdr.	9.52	+	
		Total	7.15	220kV BHP - Tsirang Fdr.		25.97	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	13.74	30MVA ICT, 220/66kV			
		Total	13.74	Error At Station/Auxiliary Consumption/Losses		0.14	
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	18.01	+	DHP Unit-I Standby.
		Unit-II	18.22	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	18.22	Error At Station/Auxiliary Consumption/Losses		0.21	
5	KHP	Unit- I	16.22	132kV KHP - Nangkhor Fdr- I	55.93	+	
		Unit-II	16.29	132kV KHP - Kilikhar Fdr- II	8.41	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.16	132kV Gelephu - Salakati Fdr.	5.91	+	
				132kV Motanga - Rangia Fdr.	40.27	+	
				220kV Tsirang - Jigmeling	42.14	+	
		Total	65.09	Error At Station/Auxiliary Consumption/Losses		0.25	

Note: Load summary on June 06, 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	679.08	236.23	229.11	400.71	7.12
2	Eastern Grid	65.09	61.05	60.80	46.18	0.25
	Total	744.17	297.28	289.91	446.89	7.37

Note: Load Summary on June 06, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	258.78	269.23	286.43
2	Eastern Grid	43.81	47.73	67.48
	National	302.59	316.96	342.69

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: June 7, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.32	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II & IV Standby. 400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	173.38	+	
		Unit- III	138.52	400kV THP - Siliguri Fdr- IV	165.11	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	239.37	+	
		Unit- V	137.52	400kV Malbase - Siliguri	146.47	+	
		Unit- VI	139.40				
		Total	581.76	Error At Station/Auxiliary Consumption/Losses	3.90		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	62.15	+	Unit-I Standby.
		Unit- II	87.91	220kV CHP - Birpara Fdr- II	62.19	+	
		Unit- III	89.33	220kV CHP - Malbase Fdr- III	106.71	+	
		Unit- IV	89.83	220kV CHP - Semtokha Fdr- IV	14.97	+	
				220kV Malbase - Birpara Fdr.	19.51	+	
				66kV CHP - Chumdo Fdr.	8.97	+	
				66kV CHP - Gedu Fdr.	9.24	+	
				3x3MVA, 66/11kV TFR	0.70	+	
		Total	267.07	Error At Station/Auxiliary Consumption/Losses	2.14		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	3.05	+	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	6.73	66kV BHP - Lobeysa Fdr.	7.92	+	
		Total	6.73	220kV BHP - Tsirang Fdr.	8.18	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.46	+	
		Unit- II	12.69	30MVA ICT, 220/66kV	0.00		
		Total	12.69	Error At Station/Auxiliary Consumption/Losses	-0.19		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	30.00	+	DHP Unit-I Standby.
		Unit-II	30.24	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR	0.00		
		Total	30.24	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	16.52	132kV KHP - Nangkhor Fdr- I	61.22	+	
		Unit-II	16.59	132kV KHP - Kilikhar Fdr- II	4.29	+	
		Unit- III	16.47	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.44	132kV Gelephu - Salakati Fdr.	13.92	+	
				132kV Motanga - Rangia Fdr.	36.88	+	
				220kV Tsirang - Jigmeling	35.18	+	
		Total	66.02	Error At Station/Auxiliary Consumption/Losses	0.26		

Note: Load summary on June 07, 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	898.49	234.50	228.41	628.81	6.09
2	Eastern Grid	66.02	50.40	50.14	50.80	0.26
	Total	964.51	284.90	278.55	679.61	6.35

Note: Load Summary on June 07, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	247.93	256.94	286.43
2	Eastern Grid	33.85	48.04	67.48
	National	281.78	304.98	342.69

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.