

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 10, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders		Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	109.10	+	Unit-I, III & IV Standby.
		Unit- II	177.12	400kV THP - Siliguri Fdr- II	108.49	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	105.70	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	174.09	+	
		Unit- V	148.28	400kV Malbase - Siliguri	89.06	+	
		Unit- VI	180.06				
		Total	505.46	Error At Station/Auxiliary Consumption/Losses	8.08		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	50.70	+	Unit-I standby
		Unit- II	77.71	220kV CHP - Birpara Fdr- II	50.48	+	
		Unit- III	81.25	220kV CHP - Malbase Fdr- III	95.64	+	
		Unit- IV	80.08	220kV CHP - Semtokha Fdr- IV	17.47	+	
				220kV Malbase - Birpara Fdr.	10.14	-	
				66kV CHP - Chumdo Fdr.	12.98	+	
				66kV CHP - Gedu Fdr.	7.30	+	
		Total	239.04	Error At Station/Auxiliary Consumption/Losses	3.28		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	6.10	+	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	5.70	66kV BHP - Lobeysa Fdr.	9.04	+	
		Total	5.70	220kV BHP - Tsirang Fdr.	1.04	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.62	+	
		Unit- II	11.03	30MVA ICT, 220/66kV			
		Total	11.03	Error At Station/Auxiliary Consumption/Losses	-0.07		
4	DHPC	Unit-I	17.98	220kV DHPC - Tsirang Fdr.	17.69	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	17.98	Error At Station/Auxiliary Consumption/Losses	0.29		
5	KHP	Unit- I	16.51	132kV KHP - Nangkhor Fdr- I	57.44	+	132kV Mot-Ran line tripped
		Unit-II	16.44	132kV KHP - Kilikhar Fdr- II	7.03	+	
		Unit- III	16.64	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.27	132kV Gelephu - Salakati Fdr.	22.41	+	
				132kV Motanga - Rangia Fdr.	0.00	+	
				220kV Tsirang - Jigmeling	15.54	+	
		Total	65.86	Error At Station/Auxiliary Consumption/Losses	1.09		

Note: Load summary on June 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	779.21	240.00	228.42	523.67	11.58
2	Eastern Grid	65.86	58.99	57.90	22.41	1.09
	Total	845.07	298.99	286.32	546.08	12.67

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	241.88	246.40	286.43
2	Eastern Grid	46.71	49.06	67.48
	National	288.59	295.46	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 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	133.77	+	Unit-I & IV Standby.
		Unit- II	159.24	400kV THP - Siliguri Fdr- II	132.27	+	
		Unit- III	119.50	400kV THP - Siliguri Fdr- IV	128.04	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	189.60	+	
		Unit- V	139.04	400kV Malbase - Siliguri	112.27	+	
		Unit- VI	169.13				
		Total	586.91	Error At Station/Auxiliary Consumption/Losses	3.23		
2	CHP	Unit- I	69.10	220kV CHP - Birpara Fdr- I	60.46	+	
		Unit- II	65.63	220kV CHP - Birpara Fdr- II	60.24	+	
		Unit- III	71.69	220kV CHP - Malbase Fdr- III	118.81	+	
		Unit- IV	70.35	220kV CHP - Semtokha Fdr- IV	16.50	+	
				220kV Malbase - Birpara Fdr.	7.96	+	
				66kV CHP - Chumdo Fdr.	8.21	+	
				66kV CHP - Gedu Fdr.	10.19	+	
		Total	276.77	Error At Station/Auxiliary Consumption/Losses	1.67		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	1.57	+	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	5.60	66kV BHP - Lobeysa Fdr.	7.42	+	
		Total	5.60	220kV BHP - Tsirang Fdr.	7.00	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	10.78	30MVA ICT, 220/66kV	0.00		
		Total	10.78	Error At Station/Auxiliary Consumption/Losses	-0.01		
4	DHPC	Unit-I	21.49	220kV DHPC - Tsirang Fdr.	21.25	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR	0.00		
		Total	21.49	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	16.30	132kV KHP - Nangkhor Fdr- I	60.34	+	
		Unit-II	16.21	132kV KHP - Kilikhar Fdr- II	4.34	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.32	132kV Gelephu - Salakati Fdr.	13.24	+	
				132kV Motanga - Rangia Fdr.	38.90	+	
				220kV Tsirang - Jigmeling	25.90	+	
		Total	65.25	Error At Station/Auxiliary Consumption/Losses	0.27		

Note: Load summary on June 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	901.55	240.64	235.51	635.01	5.13
2	Eastern Grid	65.25	39.01	38.74	52.14	0.27
Total		966.80	279.65	274.25	687.15	5.40

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	223.64	246.76	286.43
2	Eastern Grid	32.23	47.51	67.48
National		255.87	294.27	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.
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