

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 12, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	MW	Sign	Remarks
1	THP	Unit- I	166.59	400kV THP - Siliguri Fdr- I	109.62	+	Unit- III tripped Unit- IV & V Standby. <input type="checkbox"/>
		Unit- II	169.33	400kV THP - Siliguri Fdr- II	108.56	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	105.17	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	174.04	+	
		Unit- V	0.00	400kV Malbase - Siliguri	89.89	+	
		Unit- VI	169.09				
		Total	505.01	Error At Station/Auxiliary Consumption/Losses	7.62		
2	CHP	Unit- I	73.69	220kV CHP - Birpara Fdr- I	63.24	+	
		Unit- II	72.76	220kV CHP - Birpara Fdr- II	63.47	+	
		Unit- III	71.73	220kV CHP - Malbase Fdr- III	113.78	+	
		Unit- IV	73.18	220kV CHP - Semtokha Fdr- IV	25.98	+	
				220kV Malbase - Birpara Fdr.	16.54	+	
				66kV CHP - Chumdo Fdr.	12.22	+	
				66kV CHP - Gedu Fdr.	8.45	+	
				3x3MVA, 66/11kV TFR	1.13	+	
		Total	291.36	Error At Station/Auxiliary Consumption/Losses	3.09		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-3.97	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	12.51	66kV BHP - Lobeysa Fdr.	11.74	+	
		Total	12.51	220kV BHP - Tsirang Fdr.	23.86	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.64	+	
		Unit- II	20.80	30MVA ICT, 220/66kV			
Total	20.80	Error At Station/Auxiliary Consumption/Losses	1.04				
4	DHPC	Unit-I	23.00	220kV DHPC - Tsirang Fdr.	22.78	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	23.00	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	15.83	132kV KHP - Nangkhor Fdr- I	59.68	+	
		Unit-II	15.78	132kV KHP - Kilikhar Fdr- II	9.25	+	
		Unit- III	16.72	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.30	132kV Gelephu - Salakati Fdr.	6.69	+	
				132kV Motanga - Rangia Fdr.	49.18	+	
				220kV Tsirang - Jigmeling	49.00	+	
		Total	64.63	Error At Station/Auxiliary Consumption/Losses	-4.60		

Note: Load summary on June 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	852.68	247.19	235.22	556.49	11.97
2	Eastern Grid	64.63	57.76	62.36	55.87	-4.60
	Total	917.31	304.95	297.58	612.36	7.37

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

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	225.21	235.17	272.24
2	Eastern Grid	49.58	49.58	60.94
	National	274.79	284.75	322.46

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 13, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	183.25	400kV THP - Siliguri Fdr- I	183.52	+	Unit-III & IV Standby.
		Unit- II	183.89	400kV THP - Siliguri Fdr- II	181.26	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	177.78	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	190.69	+	
		Unit- V	185.75	400kV Malbase - Siliguri	169.26	+	
		Unit- VI	186.80				
		Total	739.69	Error At Station/Auxiliary Consumption/Losses	6.44		
2	CHP	Unit- I	92.10	220kV CHP - Birpara Fdr- I	111.75	+	
		Unit- II	90.80	220kV CHP - Birpara Fdr- II	112.12	+	
		Unit- III	91.27	220kV CHP - Malbase Fdr- III	187.29	+	
		Unit- IV	91.81	220kV CHP - Semtokha Fdr- IV	-66.86	-	
				220kV Malbase - Birpara Fdr.	39.25	+	
				66kV CHP - Chumdo Fdr.	7.68	+	
				66kV CHP - Gedu Fdr.	11.75	+	
				3x3MVA, 66/11kV TFR	0.67	+	
		Total	365.98	Error At Station/Auxiliary Consumption/Losses	1.58		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	78.87	+	(U/S) Unit-I Standby.
		Unit- II	16.26	66kV BHP - Lobeysa Fdr.	13.12	+	
		Total	16.26	220kV BHP - Tsirang Fdr.	-47.49	-	
	BHP (L/S)	Unit- I	13.63	5MVA, 66/11kV TFR	0.32	+	
		Unit- II	14.29	30MVA ICT, 220/66kV			
		Total	27.92	Error At Station/Auxiliary Consumption/Losses	-0.64		
4	DHPC	Unit-I	60.02	220kV DHPC - Tsirang Fdr.	120.75	+	
		Unit-II	61.24	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR	0.00		
		Total	121.26	Error At Station/Auxiliary Consumption/Losses	0.51		
5	KHP	Unit- I	14.76	132kV KHP - Nangkhor Fdr- I	57.47	+	
		Unit-II	14.71	132kV KHP - Kilikhar Fdr- II	4.35	+	
		Unit- III	16.58	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.44	132kV Gelephu - Salakati Fdr.	42.75	+	
				132kV Motanga - Rangia Fdr.	34.35	+	
				220kV Tsirang - Jigmeling	72.19	+	
		Total	62.49	Error At Station/Auxiliary Consumption/Losses	0.37		

Note: Load summary on June 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	1,271.11	223.98	216.09	974.94	7.89
2	Eastern Grid	62.49	57.58	57.21	77.10	0.37
	Total	1,333.60	281.56	273.30	1,052.04	8.26

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.56	255.33	272.24
2	Eastern Grid	37.51	52.87	60.94
	National	275.07	308.20	322.46

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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