

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 3, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	146.66	400kV THP - Siliguri Fdr- I	0.00		Unit-II, III and V Standby. 400kV THP-SIL fdr I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	117.06	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	110.91	+	
		Unit- IV	149.78	400kV THP - Malbase Fdr- III	212.34	+	
		Unit- V	0.00	400kV Malbase - Siliguri	88.27	+	
		Unit- VI	148.26				
		Total	444.70	Error At Station/Auxiliary Consumption/Losses	4.39		
2	CHP	Unit- I	65.04	220kV CHP - Birpara Fdr- I	34.79	+	Unit-II standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	34.72	+	
		Unit- III	65.40	220kV CHP - Malbase Fdr- III	63.39	+	
		Unit- IV	69.64	220kV CHP - Semtokha Fdr- IV	43.81	+	
				220kV Malbase - Birpara Fdr.	8.63	+	
				66kV CHP - Chumdo Fdr.	12.44	+	
				66kV CHP - Gedu Fdr.	6.27	+	
				3x3MVA, 66/11kV TFR	1.24	+	
		Total	200.08	Error At Station/Auxiliary Consumption/Losses	3.42		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-17.14	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	6.12	66kV BHP - Lobeysa Fdr.	8.62	+	
		Total	6.12	220kV BHP - Tsirang Fdr.	26.57	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	11.82	30MVA ICT, 220/66kV			
		Total	11.82	Error At Station/Auxiliary Consumption/Losses	-0.81		
4	DHPC	Unit-I	17.47	220kV DHPC - Tsirang Fdr.	17.26	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.47	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	56.45	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	8.52	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	5.50	+	
				132kV Motanga - Rangia Fdr.	40.98	+	
				220kV Tsirang - Jigmeling	32.30	+	
		Total	66.00	Error At Station/Auxiliary Consumption/Losses	0.73		

Note: Load summary on June 03, 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	680.19	253.51	246.30	394.38	7.21
2	Eastern Grid	66.00	51.82	51.09	46.48	0.73
	Total	746.19	305.33	297.39	440.86	7.94

Note: Load Summary on June 03, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	253.38	261.77	286.43
2	Eastern Grid	53.82	56.28	67.48
	National	307.20	318.05	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 2, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	98.59	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II,III and V standby. 400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	88.31	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	84.44	+	
		Unit- IV	99.19	400kV THP - Malbase Fdr- III	171.12	+	
		Unit- V	0.00	400kV Malbase - Siliguri	64.77	+	
		Unit- VI	149.62				
		Total	347.40	Error At Station/Auxiliary Consumption/Losses	3.53		
2	CHP	Unit- I	66.79	220kV CHP - Birpara Fdr- I	41.68	+	Unit-II Standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	41.72	+	
		Unit- III	71.02	220kV CHP - Malbase Fdr- III	83.78	+	
		Unit- IV	70.97	220kV CHP - Semtokha Fdr- IV	21.51	+	
				220kV Malbase - Birpara Fdr.	3.99	+	
				66kV CHP - Chumdo Fdr.	8.79	+	
				66kV CHP - Gedu Fdr.	8.84	+	
				3x3MVA, 66/11kV TFR	0.85	+	
		Total	208.78	Error At Station/Auxiliary Consumption/Losses	1.61		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-1.90	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	5.80	66kV BHP - Lobeysa Fdr.	7.55	+	
		Total	5.80	220kV BHP - Tsirang Fdr.	13.71	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	13.79	30MVA ICT, 220/66kV	0.00		
		Total	13.79	Error At Station/Auxiliary Consumption/Losses	-0.16		
4	DHPC	Unit-I	16.46	220kV DHPC - Tsirang Fdr.		+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	16.23		
				5MVA, 220/33kV TFR	0.00		
		Total	16.46	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	16.34	132kV KHP - Nangkhor Fdr- I	60.60	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	3.98	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	9.61	+	
				132kV Motanga - Rangia Fdr.	35.81	+	
				220kV Tsirang - Jigmeling	28.57	+	
		Total	65.84	Error At Station/Auxiliary Consumption/Losses	1.01		

Note: Load summary on June 02, 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	592.23	238.75	233.54	324.91	5.21
2	Eastern Grid	65.84	48.99	47.98	45.42	1.01
	Total	658.07	287.74	281.52	370.33	6.22

Note: Load Summary on June 02, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.58	262.21	286.43
2	Eastern Grid	33.88	49.57	67.48
	National	269.46	311.78	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
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