

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: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.95	400kV THP - Siliguri Fdr- I	0.00		Unit-II, III and V Standby. 400kV THP-SIL fdr I under breakdown. <input type="checkbox"/>
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	126.04	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	120.77	+	
		Unit- IV	139.38	400kV THP - Malbase Fdr- III	222.91	+	
		Unit- V	0.00	400kV Malbase - Siliguri	97.16	+	
		Unit- VI	169.21				
		Total	475.54	Error At Station/Auxiliary Consumption/Losses	5.82		
2	CHP	Unit- I	74.17	220kV CHP - Birpara Fdr- I	45.20	+	Unit-II standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	44.98	+	
		Unit- III	78.12	220kV CHP - Malbase Fdr- III	70.90	+	
		Unit- IV	76.17	220kV CHP - Semtokha Fdr- IV	45.33	+	
				220kV Malbase - Birpara Fdr.	19.61	+	
				66kV CHP - Chumdo Fdr.	12.84	+	
				66kV CHP - Gedu Fdr.	6.16	+	
				3x3MVA, 66/11kV TFR	1.08	+	
		Total	228.46	Error At Station/Auxiliary Consumption/Losses	1.97		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-18.97	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	6.66	66kV BHP - Lobeysa Fdr.	9.17	+	
		Total	6.66	220kV BHP - Tsirang Fdr.	27.74	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.72	+	
		Unit- II	12.43	30MVA ICT, 220/66kV			
		Total	12.43	Error At Station/Auxiliary Consumption/Losses	0.43		
4	DHPC	Unit-I	17.98	220kV DHPC - Tsirang Fdr.	17.72	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	17.98	Error At Station/Auxiliary Consumption/Losses	0.26		
5	KHP	Unit- I	16.24	132kV KHP - Nangkhor Fdr- I	58.15	+	
		Unit-II	16.67	132kV KHP - Kilikhar Fdr- II	8.37	+	
		Unit- III	16.30	5MVA, 132/11kV TFR	0.66	+	
		Unit- IV	16.27	132kV Gelephu - Salakati Fdr.	8.25	+	
				132kV Motanga - Rangia Fdr.	43.86	+	
				220kV Tsirang - Jigmeling	44.80	+	
		Total	65.48	Error At Station/Auxiliary Consumption/Losses	-1.70		

Note: Load summary on June 02, 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	741.07	242.51	234.03	453.76	8.48
2	Eastern Grid	65.48	58.17	59.87	52.11	-1.70
	Total	806.55	300.68	293.90	505.87	6.78

Note: Load Summary on June 02, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	244.50	251.18	286.43
2	Eastern Grid	54.10	56.88	67.48
	National	298.60	308.06	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	146.33	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	123.31	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	117.59	+	
		Unit- IV	150.30	400kV THP - Malbase Fdr- III	200.65	+	
		Unit- V	0.00	400kV Malbase - Siliguri	98.10	+	
		Unit- VI	149.72				
		Total	446.35	Error At Station/Auxiliary Consumption/Losses		4.80	
2	CHP	Unit- I	74.04	220kV CHP - Birpara Fdr- I	45.46	+	Unit-II Standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	45.31	+	
		Unit- III	74.91	220kV CHP - Malbase Fdr- III	85.07	+	
		Unit- IV	74.03	220kV CHP - Semtokha Fdr- IV	27.31	+	
				220kV Malbase - Birpara Fdr.	8.68	+	
				66kV CHP - Chumdo Fdr.	9.73	+	
				66kV CHP - Gedu Fdr.	7.90	+	
				3x3MVA, 66/11kV TFR	0.95	+	
		Total	222.98	Error At Station/Auxiliary Consumption/Losses		1.25	
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-5.29	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	6.80	66kV BHP - Lobeysa Fdr.	8.00	+	
		Total	6.80	220kV BHP - Tsirang Fdr.		17.30	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.41	+	
		Unit- II	13.37	30MVA ICT, 220/66kV	0.00		
		Total	13.37	Error At Station/Auxiliary Consumption/Losses		-0.25	
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	60.72	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	4.71	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.10	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	11.39	+	
				132kV Motanga - Rangia Fdr.	46.70	+	
				220kV Tsirang - Jigmeling	34.96	+	
		Total	66.00	Error At Station/Auxiliary Consumption/Losses		0.47	

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	706.97	233.56	227.55	438.45	6.01
2	Eastern Grid	66.00	42.87	42.40	58.09	0.47
	Total	772.97	276.43	269.95	496.54	6.48

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	241.01	261.77	286.43
2	Eastern Grid	46.04	56.28	67.48
	National	287.05	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:
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