

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 16, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	176.96	400kV THP - Siliguri Fdr- I	0.00		Unit-II standby. 400kV Tala-Siliguri Fdr-I under breakdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	289.61	+	
		Unit- III	185.52	400kV THP - Siliguri Fdr- IV	275.95	+	
		Unit- IV	185.17	400kV THP - Malbase Fdr- III	340.06	+	
		Unit- V	185.40	400kV Malbase - Siliguri	256.25	+	
		Unit- VI	179.93				
		Total	912.98	Error At Station/Auxiliary Consumption/Losses	7.36		
2	CHP	Unit- I	85.41	220kV CHP - Birpara Fdr- I	103.65	+	
		Unit- II	91.45	220kV CHP - Birpara Fdr- II	103.47	+	
		Unit- III	86.94	220kV CHP - Malbase Fdr- III	154.53	+	
		Unit- IV	87.10	220kV CHP - Semtokha Fdr- IV	-35.01	+	
				220kV Malbase - Birpara Fdr.	50.57	+	
				66kV CHP - Chumdo Fdr.	12.16	+	
				66kV CHP - Gedu Fdr.	9.43	+	
				3x3MVA, 66/11kV TFR	1.14	+	
		Total	350.90	Error At Station/Auxiliary Consumption/Losses	1.53		
3	BHP (U/S)	Unit- I	11.96	220kV BHP - Semtokha Fdr.	51.43	+	
		Unit- II	11.96	66kV BHP - Lobeysa Fdr.	16.87	+	
		Total	23.92	220kV BHP - Tsirang Fdr.	-7.53	+	
	BHP (L/S)	Unit- I	18.68	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	18.83	30MVA ICT, 220/66kV			
		Total	37.51	Error At Station/Auxiliary Consumption/Losses	-0.02		
4	DHPC	Unit-I	45.02	220kV DHPC - Tsirang Fdr.	89.81	+	
		Unit-II	45.25	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	90.27	Error At Station/Auxiliary Consumption/Losses	0.46		
5	KHP	Unit- I	16.77	132kV KHP - Nangkhor Fdr- I	59.45	+	KHP units under shutdown.
		Unit-II	16.63	132kV KHP - Kilikhar Fdr- II	5.07	+	
		Unit- III	16.64	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.49	132kV Gelephu - Salakati Fdr.	25.52	+	
				132kV Motanga - Rangia Fdr.	32.35	+	
				220kV Tsirang - Jigmeling	56.40	+	
		Total	66.53	Error At Station/Auxiliary Consumption/Losses	1.51		

Note: Load summary on June 16, 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	1,415.58	279.68	270.35	1,079.50	9.33
2	Eastern Grid	66.53	65.06	63.55	57.87	1.51
	Total	1,482.11	344.74	333.90	1,137.37	10.84

Note: Load Summary on June 16, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	250.00	254.19	286.43
2	Eastern Grid	51.16	51.26	67.48
	National	301.16	305.45	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 17, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.64	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II Standby. 400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	168.22	400kV THP - Siliguri Fdr- II	331.74	+	
		Unit- III	168.96	400kV THP - Siliguri Fdr- IV	318.42	+	
		Unit- IV	167.79	400kV THP - Malbase Fdr- III	350.11	+	
		Unit- V	168.09	400kV Malbase - Siliguri	303.68	+	
		Unit- VI	168.50				
		Total	1,008.20	Error At Station/Auxiliary Consumption/Losses	7.93		
2	CHP	Unit- I	91.94	220kV CHP - Birpara Fdr- I	112.21	+	
		Unit- II	91.68	220kV CHP - Birpara Fdr- II	112.02	+	
		Unit- III	91.51	220kV CHP - Malbase Fdr- III	174.58	+	
		Unit- IV	92.74	220kV CHP - Semtokha Fdr- IV	-53.59	-	
				220kV Malbase - Birpara Fdr.	48.36	+	
				66kV CHP - Chumdo Fdr.	9.12	+	
				66kV CHP - Gedu Fdr.	10.45	+	
				3x3MVA, 66/11kV TFR	1.07	+	
		Total	367.87	Error At Station/Auxiliary Consumption/Losses	2.01		
3	BHP (U/S)	Unit- I	11.93	220kV BHP - Semtokha Fdr.	66.71	+	
		Unit- II	11.93	66kV BHP - Lobeysa Fdr.	15.17	+	
		Total	23.86	220kV BHP - Tsirang Fdr.	-18.46	+	
	BHP (L/S)	Unit- I	20.10	5MVA, 66/11kV TFR	0.36	+	
		Unit- II	20.23	30MVA ICT, 220/66kV	0.00		
		Total	40.33	Error At Station/Auxiliary Consumption/Losses	0.41		
4	DHPC	Unit-I	43.02	220kV DHPC - Tsirang Fdr.	83.90	+	
		Unit-II	41.31	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	84.33	Error At Station/Auxiliary Consumption/Losses	0.43		
5	KHP	Unit- I	16.68	132kV KHP - Nangkhor Fdr- I	60.33	+	
		Unit-II	16.67	132kV KHP - Kilikhar Fdr- II	5.10	+	
		Unit- III	16.66	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.41	132kV Gelephu - Salakati Fdr.	41.15	+	
				132kV Motanga - Rangia Fdr.	38.47	+	
				220kV Tsirang - Jigmeling	65.98	+	
		Total	66.42	Error At Station/Auxiliary Consumption/Losses	0.69		

Note: Load summary on June 17, 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	1,524.59	232.18	221.40	1,226.43	10.78
2	Eastern Grid	66.42	52.78	52.09	79.62	0.69
	Total	1,591.01	284.96	273.49	1,306.05	11.47

Note: Load Summary on June 17, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.38	247.34	286.43
2	Eastern Grid	40.57	56.00	67.48
	National	279.95	303.34	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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