

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 20, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	139.05	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I under breakdown Unit V-Standby
		Unit- II	139.40	400kV THP - Siliguri Fdr- II	170.65	+	
		Unit- III	148.95	400kV THP - Siliguri Fdr- IV	163.23	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	223.04	+	
		Unit- V	0.00	400kV Malbase - Siliguri	148.23	+	
		Unit- VI	134.16				
		Total	561.56	Error At Station/Auxiliary Consumption/Losses	4.64		
2	CHP	Unit- I	72.50	220kV CHP - Birpara Fdr- I	62.06	+	
		Unit- II	74.67	220kV CHP - Birpara Fdr- II	62.07	+	
		Unit- III	75.21	220kV CHP - Malbase Fdr- III	120.59	+	
		Unit- IV	67.88	220kV CHP - Semtokha Fdr- IV	21.51	+	
				220kV Malbase - Birpara Fdr.	8.81	+	
				66kV CHP - Chumdo Fdr.	11.64	+	
				66kV CHP - Gedu Fdr.	8.66	+	
				3x3MVA, 66/11kV TFR	1.20	+	
		Total	290.26	Error At Station/Auxiliary Consumption/Losses	2.53		
3	BHP (U/S)	Unit- I	4.87	220kV BHP - Semtokha Fdr.	0.60	+	
		Unit- II	4.87	66kV BHP - Lobeysa Fdr.	10.93	+	
		Total	9.74	220kV BHP - Tsirang Fdr.	14.33	+	
	BHP (L/S)	Unit- I	8.48	5MVA, 66/11kV TFR	0.77	+	
		Unit- II	8.94	30MVA ICT, 220/66kV			
		Total	17.42	Error At Station/Auxiliary Consumption/Losses	0.53		
4	DHPC	Unit-I	31.08	220kV DHPC - Tsirang Fdr.	30.82	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	31.08	Error At Station/Auxiliary Consumption/Losses	0.26		
5	KHP	Unit- I	16.49	132kV KHP - Nangkhor Fdr- I	56.03	+	
		Unit-II	16.59	132kV KHP - Kilikhar Fdr- II	8.63	+	
		Unit- III	16.57	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.30	132kV Gelephu - Salakati Fdr.	6.62	+	
				132kV Motanga - Rangia Fdr.	37.20	+	
				220kV Tsirang - Jigmeling	41.39	+	
		Total	65.95	Error At Station/Auxiliary Consumption/Losses	0.79		

Note: Load summary on June 20, 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	910.06	253.62	245.66	615.05	7.96
2	Eastern Grid	65.95	63.52	62.73	43.82	0.79
	Total	976.01	317.14	308.39	658.87	8.75

Note: Load Summary on June 20, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	232.56	261.53	286.43
2	Eastern Grid	55.01	60.94	67.48
	National	287.57	322.47	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 21, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	139.75	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I under breakdown Unit IV & V-Standby
		Unit- II	137.60	400kV THP - Siliguri Fdr- II	154.75	+	
		Unit- III	138.63	400kV THP - Siliguri Fdr- IV	147.70	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	190.57	+	
		Unit- V	0.00	400kV Malbase - Siliguri	135.38	+	
		Unit- VI	79.55				
		Total	495.53	Error At Station/Auxiliary Consumption/Losses	2.51		
2	CHP	Unit- I	59.14	220kV CHP - Birpara Fdr- I	52.26	+	
		Unit- II	55.61	220kV CHP - Birpara Fdr- II	51.98	+	
		Unit- III	65.53	220kV CHP - Malbase Fdr- III	120.01	+	
		Unit- IV	64.13	220kV CHP - Semtokha Fdr- IV	-0.32	-	
				220kV Malbase - Birpara Fdr.	-6.26	-	
				66kV CHP - Chumdo Fdr.	8.32	+	
				66kV CHP - Gedu Fdr.	9.84	+	
				3x3MVA, 66/11kV TFR	0.83	+	
		Total	244.41	Error At Station/Auxiliary Consumption/Losses	1.49		
3	BHP (U/S)	Unit- I	5.14	220kV BHP - Semtokha Fdr.	16.98	+	
		Unit- II	5.14	66kV BHP - Lobeysa Fdr.	9.47	+	
		Total	10.28	220kV BHP - Tsirang Fdr.	0.19	+	
	BHP (L/S)	Unit- I	8.75	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	9.45	30MVA ICT, 220/66kV			
		Total	18.20	Error At Station/Auxiliary Consumption/Losses	1.46		
4	DHPC	Unit-I	30.02	220kV DHPC - Tsirang Fdr.	29.78	+	
		Unit-II		220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	30.02	Error At Station/Auxiliary Consumption/Losses	0.24		
5	KHP	Unit- I	16.38	132kV KHP - Nangkhor Fdr- I	60.38	+	
		Unit-II	16.80	132kV KHP - Kilikhar Fdr- II	4.80	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.36	132kV Gelephu - Salakati Fdr.	8.28	+	
				132kV Motanga - Rangia Fdr.	41.72	+	
				220kV Tsirang - Jigmeling	29.84	+	
		Total	66.13	Error At Station/Auxiliary Consumption/Losses	0.70		

Note: Load summary on June 21, 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	798.44	232.79	227.09	535.81	5.70
2	Eastern Grid	66.13	45.97	45.27	50.00	0.70
	Total	864.57	278.76	272.36	585.81	6.40

Note: Load Summary on June 21, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	221.36	247.09	286.43
2	Eastern Grid	44.27	55.11	67.48
	National	265.63	302.20	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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