

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 26, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	138.43	400kV THP - Siliguri Fdr- I	0.00	+	Unit - IV Standby
		Unit- II	119.25	400kV THP - Siliguri Fdr- II	174.36	+	
		Unit- III	109.14	400kV THP - Siliguri Fdr- IV	164.91	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	232.57	+	
		Unit- V	109.67	400kV Malbase - Siliguri	148.13	+	
		Unit- VI	100.44				
		Total	576.93	Error At Station/Auxiliary Consumption/Losses	5.09		
2	CHP	Unit- I	71.59	220kV CHP - Birpara Fdr- I	64.67	+	
		Unit- II	74.28	220kV CHP - Birpara Fdr- II	65.06	+	
		Unit- III	70.94	220kV CHP - Malbase Fdr- III	110.03	+	
		Unit- IV	72.81	220kV CHP - Semtokha Fdr- IV	27.43	+	
				220kV Malbase - Birpara Fdr.	21.64	+	
				66kV CHP - Chumdo Fdr.	11.09	+	
				66kV CHP - Gedu Fdr.	7.22	+	
				3x3MVA, 66/11kV TFR	1.13	+	
		Total	289.62	Error At Station/Auxiliary Consumption/Losses	2.99		
3	BHP (U/S)	Unit- I	6.87	220kV BHP - Semtokha Fdr.	-5.63	-	
		Unit- II	6.87	66kV BHP - Lobeysa Fdr.	11.68	+	
		Total	13.74	220kV BHP - Tsirang Fdr.	31.38	+	
	BHP (L/S)	Unit- I	12.04	5MVA, 66/11kV TFR	0.77	+	
		Unit- II	13.09	30MVA ICT, 220/66kV			
		Total	25.13	Error At Station/Auxiliary Consumption/Losses	0.67		
4	DHPC	Unit-I	31.07	220kV DHPC - Tsirang Fdr.	30.79	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	31.07	Error At Station/Auxiliary Consumption/Losses	0.28		
5	KHP	Unit- I	16.46	132kV KHP - Nangkhor Fdr- I	58.23	+	
		Unit-II	16.67	132kV KHP - Kilikhar Fdr- II	6.98	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.51	132kV Gelephu - Salakati Fdr.	19.76	+	
				132kV Motanga - Rangia Fdr.	50.98	+	
				220kV Tsirang - Jigmeling	61.09	+	
		Total	66.25	Error At Station/Auxiliary Consumption/Losses	0.64		

Note: Load summary on June 26, 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	936.49	236.63	227.60	638.77	9.03
2	Eastern Grid	66.25	56.60	55.96	70.74	0.64
	Total	1,002.74	293.23	283.56	709.51	9.67

Note: Load Summary on June 26, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	221.70	233.12	272.24
2	Eastern Grid	53.27	56.89	60.94
	National	274.97	290.01	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 27, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	166.20	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II & IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	213.03	+	
		Unit- III	167.40	400kV THP - Siliguri Fdr- IV	204.85	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	246.29	+	
		Unit- V	168.53	400kV Malbase - Siliguri	192.41	+	
		Unit- VI	169.00				
		Total	671.13	Error At Station/Auxiliary Consumption/Losses		6.96	
2	CHP	Unit- I	92.08	220kV CHP - Birpara Fdr- I	93.32	+	
		Unit- II	90.74	220kV CHP - Birpara Fdr- II	93.99	+	
		Unit- III	91.08	220kV CHP - Malbase Fdr- III	152.03	+	
		Unit- IV	91.58	220kV CHP - Semtokha Fdr- IV	3.28	+	
				220kV Malbase - Birpara Fdr.	36.79	+	
				66kV CHP - Chumdo Fdr.	8.28	+	
				66kV CHP - Gedu Fdr.	10.30	+	
				3x3MVA, 66/11kV TFR	0.78	+	
		Total	365.48	Error At Station/Auxiliary Consumption/Losses		3.50	
3	BHP (U/S)	Unit- I	7.23	220kV BHP - Semtokha Fdr.	12.03	+	
		Unit- II	7.23	66kV BHP - Lobeysa Fdr.	10.46	+	
		Total	14.46	220kV BHP - Tsirang Fdr.		17.63	
	BHP (L/S)	Unit- I	12.54	5MVA, 66/11kV TFR	0.40	+	
		Unit- II	13.49	30MVA ICT, 220/66kV			
		Total	26.03	Error At Station/Auxiliary Consumption/Losses		-0.03	
4	DHPC	Unit-I	32.06	220kV DHPC - Tsirang Fdr.	31.83	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	32.06	Error At Station/Auxiliary Consumption/Losses		0.23	
5	KHP	Unit- I	16.37	132kV KHP - Nangkhor Fdr- I	44.49	+	Unit-II standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.04	+	
		Unit- III	16.48	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.54	132kV Gelephu - Salakati Fdr.	24.11	+	
				132kV Motanga - Rangia Fdr.	33.15	+	
				220kV Tsirang - Jigmeling	49.18	+	
		Total	49.39	Error At Station/Auxiliary Consumption/Losses		0.46	

Note: Load summary on June 27, 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	1,109.16	225.59	214.93	834.39	10.66
2	Eastern Grid	49.39	41.31	40.85	57.26	0.46
	Total	1,158.55	266.90	255.78	891.65	11.12

Note: Load Summary on June 27, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	216.53	224.48	272.24
2	Eastern Grid	45.97	56.15	60.94
	National	262.50	280.63	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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