

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 25, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.98	400kV THP - Siliguri Fdr- I	129.50	+	Unit -II & IV Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	126.43	+	
		Unit- III	148.31	400kV THP - Siliguri Fdr- IV	124.06	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	185.86	+	
		Unit- V	148.61	400kV Malbase - Siliguri	108.40	+	
		Unit- VI	138.86				
		Total	573.76	Error At Station/Auxiliary Consumption/Losses		7.91	
2	CHP	Unit- I	69.99	220kV CHP - Birpara Fdr- I	64.90	+	
		Unit- II	72.00	220kV CHP - Birpara Fdr- II	64.67	+	
		Unit- III	72.20	220kV CHP - Malbase Fdr- III	118.10	+	
		Unit- IV	72.41	220kV CHP - Semtokha Fdr- IV	19.39	+	
				220kV Malbase - Birpara Fdr.	15.71	+	
				66kV CHP - Chumdo Fdr.	10.68	+	
				66kV CHP - Gedu Fdr.	6.12	+	
				3x3MVA, 66/11kV TFR	1.05	+	
		Total	286.60	Error At Station/Auxiliary Consumption/Losses		1.69	
3	BHP (U/S)	Unit- I	7.06	220kV BHP - Semtokha Fdr.	1.97	+	
		Unit- II	7.06	66kV BHP - Lobeysa Fdr.	12.40	+	
		Total	14.12	220kV BHP - Tsirang Fdr.		23.94	
	BHP (L/S)	Unit- I	12.72	5MVA, 66/11kV TFR	0.68	+	
		Unit- II	13.68	30MVA ICT, 220/66kV			
		Total	26.40	Error At Station/Auxiliary Consumption/Losses		1.53	
4	DHPC	Unit-I	41.05	220kV DHPC - Tsirang Fdr.	40.76	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	41.05	Error At Station/Auxiliary Consumption/Losses		0.29	
5	KHP	Unit- I	16.54	132kV KHP - Nangkhor Fdr- I	56.94	+	
		Unit-II	16.62	132kV KHP - Kilikhar Fdr- II	8.34	+	
		Unit- III	16.47	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	26.25	+	
				132kV Motanga - Rangia Fdr.	56.43	+	
				220kV Tsirang - Jigmeling	64.68	+	
		Total	66.13	Error At Station/Auxiliary Consumption/Losses		0.60	

Note: Load summary on June 25, 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	941.93	243.58	232.16	633.67	11.42
2	Eastern Grid	66.13	48.13	47.53	82.68	0.60
	Total	1,008.06	291.71	279.69	716.35	12.02

Note: Load Summary on June 25, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	220.10	235.42	272.24
2	Eastern Grid	52.55	56.92	60.94
	National	272.65	292.34	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 26, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	165.08	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II & IV Standby. 400kV Tala_Sili I under breakdown.
		Unit- II	147.72	400kV THP - Siliguri Fdr- II	243.00	+	
		Unit- III	139.78	400kV THP - Siliguri Fdr- IV	233.23	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	278.16	+	
		Unit- V	138.52	400kV Malbase - Siliguri	219.59	+	
		Unit- VI	169.23				
		Total	760.33	Error At Station/Auxiliary Consumption/Losses		5.94	
2	CHP	Unit- I	92.16	220kV CHP - Birpara Fdr- I	96.21	+	
		Unit- II	90.04	220kV CHP - Birpara Fdr- II	95.76	+	
		Unit- III	90.84	220kV CHP - Malbase Fdr- III	153.84	+	
		Unit- IV	91.41	220kV CHP - Semtokha Fdr- IV	2.02	+	
				220kV Malbase - Birpara Fdr.	38.43	+	
				66kV CHP - Chumdo Fdr.	7.64	+	
				66kV CHP - Gedu Fdr.	6.92	+	
				3x3MVA, 66/11kV TFR	0.79	+	
		Total	364.45	Error At Station/Auxiliary Consumption/Losses		1.27	
3	BHP (U/S)	Unit- I	8.08	220kV BHP - Semtokha Fdr.	12.92	+	
		Unit- II	8.08	66kV BHP - Lobeysa Fdr.	11.08	+	
		Total	16.16	220kV BHP - Tsirang Fdr.		19.60	
	BHP (L/S)	Unit- I	13.78	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	14.60	30MVA ICT, 220/66kV			
		Total	28.38	Error At Station/Auxiliary Consumption/Losses		0.55	
4	DHPC	Unit-I	34.55	220kV DHPC - Tsirang Fdr.	34.27	+	Unit II Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	34.55	Error At Station/Auxiliary Consumption/Losses		0.28	
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	60.53	+	
		Unit-II	16.53	132kV KHP - Kilikhar Fdr- II	4.61	+	
		Unit- III	16.53	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.71	132kV Gelephu - Salakati Fdr.	29.11	+	
				132kV Motanga - Rangia Fdr.	54.60	+	
				220kV Tsirang - Jigmeling	52.44	+	
		Total	66.27	Error At Station/Auxiliary Consumption/Losses		0.83	

Note: Load summary on June 26, 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	1,203.87	225.21	217.17	926.22	8.04
2	Eastern Grid	66.27	35.00	34.17	83.71	0.83
	Total	1,270.14	260.21	251.34	1,009.93	8.87

Note: Load Summary on June 26, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	217.45	233.12	272.24
2	Eastern Grid	45.49	56.89	60.94
	National	262.94	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.
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