

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 5, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	117.16	400kV THP - Siliguri Fdr- I	0.00		Unit-II, IV and V Standby. 400kV THP-SIL fdr I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	81.98	+	
		Unit- III	98.22	400kV THP - Siliguri Fdr- IV	77.20	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	172.39	+	
		Unit- V	0.00	400kV Malbase - Siliguri	55.05	+	
		Unit- VI	118.99				
		Total	334.37	Error At Station/Auxiliary Consumption/Losses	2.80		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	41.31	+	Unit-I standby
		Unit- II	60.95	220kV CHP - Birpara Fdr- II	41.47	+	
		Unit- III	61.92	220kV CHP - Malbase Fdr- III	64.11	+	
		Unit- IV	68.71	220kV CHP - Semtokha Fdr- IV	22.96	+	
				220kV Malbase - Birpara Fdr.	18.72	+	
				66kV CHP - Chumdo Fdr.	12.22	+	
				66kV CHP - Gedu Fdr.	6.51	+	
				3x3MVA, 66/11kV TFR	1.13	+	
		Total	191.58	Error At Station/Auxiliary Consumption/Losses	1.87		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-3.47	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	19.70	66kV BHP - Lobeysa Fdr.	14.76	+	
		Total	19.70	220kV BHP - Tsirang Fdr.	31.60	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.87	+	
		Unit- II	23.34	30MVA ICT, 220/66kV			
		Total	23.34	Error At Station/Auxiliary Consumption/Losses	-0.72		
4	DHPC	Unit-I	17.99	220kV DHPC - Tsirang Fdr.	17.77	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	17.99	Error At Station/Auxiliary Consumption/Losses	0.22		
5	KHP	Unit- I	16.11	132kV KHP - Nangkhor Fdr- I	55.50	+	
		Unit-II	16.56	132kV KHP - Kilikhar Fdr- II	8.61	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.58	132kV Gelephu - Salakati Fdr.	9.63	+	
				132kV Motanga - Rangia Fdr.	47.47	+	
				220kV Tsirang - Jigmeling	46.78	+	
		Total	65.75	Error At Station/Auxiliary Consumption/Losses	1.14		

Note: Load summary on June 05, 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	586.98	224.47	220.30	315.73	4.17
2	Eastern Grid	65.75	55.43	54.29	57.10	1.14
	Total	652.73	279.90	274.59	372.83	5.31

Note: Load Summary on June 05, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	244.97	251.75	286.43
2	Eastern Grid	57.26	57.26	67.48
	National	302.23	309.01	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 6, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	98.13	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II,IV and V standby. 400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	76.50	+	
		Unit- III	99.60	400kV THP - Siliguri Fdr- IV	72.60	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	144.29	+	
		Unit- V	0.00	400kV Malbase - Siliguri	57.55	+	
		Unit- VI	99.50				
		Total	297.23	Error At Station/Auxiliary Consumption/Losses	3.84		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	55.40	+	Unit-I Standby.
		Unit- II	75.53	220kV CHP - Birpara Fdr- II	55.39	+	
		Unit- III	80.42	220kV CHP - Malbase Fdr- III	96.16	+	
		Unit- IV	82.65	220kV CHP - Semtokha Fdr- IV	10.97	+	
				220kV Malbase - Birpara Fdr.	17.14	+	
				66kV CHP - Chumdo Fdr.	8.88	+	
				66kV CHP - Gedu Fdr.	8.74	+	
				3x3MVA, 66/11kV TFR	0.75	+	
		Total	238.60	Error At Station/Auxiliary Consumption/Losses	2.31		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	6.94	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	8.82	66kV BHP - Lobeysa Fdr.	8.99	+	
		Total	8.82	220kV BHP - Tsirang Fdr.	8.27	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	16.01	30MVA ICT, 220/66kV	0.00		
		Total	16.01	Error At Station/Auxiliary Consumption/Losses	0.24		
4	DHPC	Unit-I	21.98	220kV DHPC - Tsirang Fdr.	21.78	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR	0.00		
		Total	21.98	Error At Station/Auxiliary Consumption/Losses	0.20		
5	KHP	Unit- I	16.65	132kV KHP - Nangkhor Fdr- I	61.40	+	
		Unit-II	16.60	132kV KHP - Kilikhar Fdr- II	4.21	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.63	132kV Gelephu - Salakati Fdr.	9.08	+	
				132kV Motanga - Rangia Fdr.	39.22	+	
				220kV Tsirang - Jigmeling	28.91	+	
		Total	66.47	Error At Station/Auxiliary Consumption/Losses	0.61		

Note: Load summary on June 06, 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	582.64	219.15	212.56	334.58	6.59
2	Eastern Grid	66.47	47.08	46.47	48.30	0.61
	Total	649.11	266.23	259.03	382.88	7.20

Note: Load Summary on June 06, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	241.07	269.23	286.43
2	Eastern Grid	36.62	47.73	67.48
	National	277.69	316.96	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.