

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 4, 2018
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	136.27	400kV THP - Siliguri Fdr- I	0.00		Unit-II, III and V Standby. 400kV THP-SIL fdr I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	114.05	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	108.88	+	
		Unit- IV	168.92	400kV THP - Malbase Fdr- III	226.01	+	
		Unit- V	0.00	400kV Malbase - Siliguri	82.11	+	
		Unit- VI	148.30				
		Total	453.49	Error At Station/Auxiliary Consumption/Losses	4.55		
2	CHP	Unit- I	88.03	220kV CHP - Birpara Fdr- I	27.53	+	Unit-II and Unit IV under breakdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	27.56	+	
		Unit- III	89.45	220kV CHP - Malbase Fdr- III	53.70	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	46.58	+	
				220kV Malbase - Birpara Fdr.	3.98	+	
				66kV CHP - Chumdo Fdr.	12.02	+	
				66kV CHP - Gedu Fdr.	7.12	+	
				3x3MVA, 66/11kV TFR	1.26	+	
		Total	177.48	Error At Station/Auxiliary Consumption/Losses	1.71		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-19.65	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	5.59	66kV BHP - Lobeysa Fdr.	8.88	+	
		Total	5.59	220kV BHP - Tsirang Fdr.	25.63	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.73	+	
		Unit- II	10.79	30MVA ICT, 220/66kV			
		Total	10.79	Error At Station/Auxiliary Consumption/Losses	0.79		
4	DHPC	Unit-I	15.00	220kV DHPC - Tsirang Fdr.	14.77	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	15.00	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	13.61	132kV KHP - Nangkhor Fdr- I	44.51	+	132kV GEL-SAL under break down
		Unit-II	13.74	132kV KHP - Kilikhar Fdr- II	8.66	+	
		Unit- III	13.57	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	13.42	132kV Gelephu - Salakati Fdr.	0.00		
				132kV Motanga - Rangia Fdr.	37.41	+	
				220kV Tsirang - Jigmeling	38.50	+	
		Total	54.34	Error At Station/Auxiliary Consumption/Losses	0.87		

Note: Load summary on June 04, 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	662.35	259.74	252.46	364.11	7.28
2	Eastern Grid	54.34	55.43	54.56	37.41	0.87
	Total	716.69	315.17	307.02	401.52	8.15

Note: Load Summary on June 04, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	252.45	262.21	286.43
2	Eastern Grid	49.57	49.57	67.48
	National	302.02	311.78	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 5, 2018
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	136.09	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II,III and V standby. 400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	117.23	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	112.29	+	
		Unit- IV	148.79	400kV THP - Malbase Fdr- III	197.65	+	
		Unit- V	0.00	400kV Malbase - Siliguri	92.57	+	
		Unit- VI	148.08				
		Total	432.96	Error At Station/Auxiliary Consumption/Losses	5.79		
2	CHP	Unit- I	73.88	220kV CHP - Birpara Fdr- I	49.79	+	Unit-II Standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	49.79	+	
		Unit- III	77.78	220kV CHP - Malbase Fdr- III	84.48	+	
		Unit- IV	76.45	220kV CHP - Semtokha Fdr- IV	23.77	+	
				220kV Malbase - Birpara Fdr.	16.56	+	
				66kV CHP - Chumdo Fdr.	8.55	+	
				66kV CHP - Gedu Fdr.	8.67	+	
				3x3MVA, 66/11kV TFR	0.74	+	
		Total	228.11	Error At Station/Auxiliary Consumption/Losses	2.32		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-4.89	-	(U/S) Unit-I & (L/S) Unit-I Standby.
		Unit- II	6.06	66kV BHP - Lobeysa Fdr.	7.73	+	
		Total	6.06	220kV BHP - Tsirang Fdr.	14.02	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.44	+	
		Unit- II	11.34	30MVA ICT, 220/66kV	0.00		
		Total	11.34	Error At Station/Auxiliary Consumption/Losses	0.10		
4	DHPC	Unit-I	20.99	220kV DHPC - Tsirang Fdr.	20.78	+	DHP Unit-II Standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR	0.00		
		Total	20.99	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	59.97	+	
		Unit-II	16.28	132kV KHP - Kilikhar Fdr- II	3.79	+	
		Unit- III	16.33	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.33	132kV Gelephu - Salakati Fdr.	9.28	+	
				132kV Motanga - Rangia Fdr.	38.70	+	
				220kV Tsirang - Jigmeling	33.50	+	
		Total	65.26	Error At Station/Auxiliary Consumption/Losses	1.25		

Note: Load summary on June 05, 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	699.46	227.73	219.31	438.23	8.42
2	Eastern Grid	65.26	50.78	49.53	47.98	1.25
	Total	764.72	278.51	268.84	486.21	9.67

Note: Load Summary on June 05, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	241.07	251.75	286.43
2	Eastern Grid	37.73	57.26	67.48
	National	278.80	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
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