

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Date: April 12, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.30	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit III,VI under AM. Unit IV standby.
		Unit- II	138.04	400kV THP - Siliguri Fdr- II	166.26	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	244.51	+	
		Unit- V	138.52	400kV Malbase - Siliguri	135.08	+	
		Unit- VI	0.00				
		Total	413.86	Error At Station/Auxiliary Consumption/Losses	3.09		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	26.82	+	Unit I & IV under AM.
		Unit- II	91.43	220kV CHP - Birpara Fdr- II	26.93	+	
		Unit- III	91.22	220kV CHP - Malbase Fdr- III	62.83	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	46.40	+	
				220kV Malbase - Birpara Fdr.	-3.62	-	
				66kV CHP - Chumdo Fdr.	10.09	+	
				66kV CHP - Gedu Fdr.	6.37	+	
				3x3MVA, 66/11kV TFR	1.68	+	
		Total	182.65	Error At Station/Auxiliary Consumption/Losses	1.53		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	0.64	+	Upper & Lower Unit I Standby. □
		Unit- II	6.07	66kV BHP - Lobeysa Fdr.	12.93	+	
		Total	6.07	220kV BHP - Tsirang Fdr.	7.13	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.74	+	
		Unit- II	12.92	30MVA ICT, 220/66kV			
		Total	12.92	Error At Station/Auxiliary Consumption/Losses	-2.45		
4	DHPC	Unit-I	19.23	220kV DHPC - Tsirang Fdr.	19.02	+	Unit-I under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	19.23	Error At Station/Auxiliary Consumption/Losses	0.21		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	22.42	+	Unit-I under AM.
		Unit-II	11.04	132kV KHP - Kilikhar Fdr- II	9.99	+	
		Unit- III	11.21	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	11.02	132kV Gelephu - Salakati Fdr.	-13.89	-	
				132kV Motanga - Rangia Fdr.	14.02	+	
				220kV Tsirang - Jigmeling	24.08	+	
		Total	33.27	Error At Station/Auxiliary Consumption/Losses	0.16		

Note: Load summary on April 12, 2019 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	634.73	259.18	256.80	351.47	2.38
2	Eastern Grid	33.27	57.22	57.06	0.13	0.16
	Total	668.00	316.40	313.86	351.60	2.54

Note: Load Summary on April 12, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	287.68	287.68	304.53
2	Eastern Grid	70.10	70.10	71.59
	National	357.78	357.78	376.12

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.

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Maximum Load/Demand till Date

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Date: April 13, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.07	400kV THP - Siliguri Fdr- I	0.00		Fdr IV Idle charged. Fdr I Standby. Unit III under AM . Unit IV standby. Unit-VI under shutdown.
		Unit- II	138.26	400kV THP - Siliguri Fdr- II	141.02	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	199.51	+	
		Unit- V	68.72	400kV Malbase - Siliguri	116.35	+	
		Unit- VI	0.00				
		Total	344.05	Error At Station/Auxiliary Consumption/Losses	3.52		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	33.55	+	Unit I & IV under AM.
		Unit- II	91.98	220kV CHP - Birpara Fdr- II	33.28	+	
		Unit- III	91.83	220kV CHP - Malbase Fdr- III	81.92	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	19.68	+	
				220kV Malbase - Birpara Fdr.	-8.73	-	
				66kV CHP - Chumdo Fdr.	6.29	+	
				66kV CHP - Gedu Fdr.	6.74	+	
				3x3MVA, 66/11kV TFR	0.95	+	
		Total	183.81	Error At Station/Auxiliary Consumption/Losses	1.40		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	12.92	+	Upper stage & Lower stage Unit I Standby. □
		Unit- II	6.50	66kV BHP - Lobeysa Fdr.	10.50	+	
		Total	6.50	220kV BHP - Tsirang Fdr.	-3.57	-	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	13.57	30MVA ICT, 220/66kV			
		Total	13.57	Error At Station/Auxiliary Consumption/Losses	-0.17		
4	DHPC	Unit-I	20.28	220kV DHPC - Tsirang Fdr.	20.09	+	Unit-II under standby.
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	20.28	Error At Station/Auxiliary Consumption/Losses	0.19		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	44.90	+	Unit-I under AM.
		Unit-II	16.74	132kV KHP - Kilikhar Fdr- II	4.00	+	
		Unit- III	16.54	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.49	132kV Gelephu - Salakati Fdr.	-6.40	-	
				132kV Motanga - Rangia Fdr.	29.20	+	
				220kV Tsirang - Jigmeling	14.70	+	
		Total	49.77	Error At Station/Auxiliary Consumption/Losses	0.47		

Note: Load summary on April 13, 2019 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	568.21	238.04	233.10	315.47	4.94
2	Eastern Grid	49.77	41.67	41.20	22.80	0.47
	Total	617.98	279.71	274.30	338.27	5.41

Note: Load Summary on April 13, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.17	288.58	304.53
2	Eastern Grid	36.69	61.37	71.59
	National	291.86	349.95	376.12

Notes:-

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