

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: February 21, 2019
Hours: 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		400kV THP-SIL Fdr I under AM. Unit V standby. Unit-I, II & III under AM
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	52.99	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	131.35	400kV THP - Malbase Fdr- III	144.83	+	
		Unit- V	0.00	400kV Malbase - Siliguri	28.41	+	
		Unit- VI	69.94				
		Total	201.29	Error At Station/Auxiliary Consumption/Losses	3.47		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	6.90	+	Unit I under AM. Unit-II Standby 220kV CHP_MAL line & 66kV CHP-GED line under maintenance.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	7.00	+	
		Unit- III	49.88	220kV CHP - Malbase Fdr- III	0.00		
		Unit- IV	50.27	220kV CHP - Semtokha Fdr- IV	63.66	+	
				220kV Malbase - Birpara Fdr.	-42.58	-	
				66kV CHP - Chumdo Fdr.	21.80	+	
				66kV CHP - Gedu Fdr.	0.00		
				3x3MVA, 66/11kV TFR	1.89	+	
Total	100.15	Error At Station/Auxiliary Consumption/Losses	-1.10				
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-15.52	-	Upper stage Unit I & Lower Stage- Unit II AM.
		Unit- II	5.30	66kV BHP - Lobeysa Fdr.	13.00	+	
		Total	5.30	220kV BHP - Tsirang Fdr.	16.54	+	
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR	0.84	+	
		Unit- II	0.00	30MVA ICT, 220/66kV			
		Total	10.50	Error At Station/Auxiliary Consumption/Losses	0.94		
4	DHPC	Unit-I	16.24	220kV DHPC - Tsirang Fdr.	16.01	+	Unit-II under AM
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	16.24	Error At Station/Auxiliary Consumption/Losses	0.23		
5	KHP	Unit- I	10.34	132kV KHP - Nangkhor Fdr- I	10.03	+	Unit II Standby Unit-III AM
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.83	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	10.13	132kV Gelephu - Salakati Fdr.	-20.18	-	
				132kV Motanga - Rangia Fdr.	3.72	+	
				220kV Tsirang - Jigmeling	29.95	+	
		Total	20.47	Error At Station/Auxiliary Consumption/Losses	0.01		

Note: Load summary on February 21, 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	333.48	250.81	247.27	52.72	3.54
2	Eastern Grid	20.47	66.88	66.87	-16.46	0.01
	Total	353.95	317.69	314.14	36.26	3.55

Note: Load Summary on February 21, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	303.06	303.06	313.19
2	Eastern Grid	46.48	57.45	72.02
	National	349.54	360.51	385.21

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)
27-Dec-18	18:18hrs	399.35MW

Date: February 22, 2019
Hours: 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks	
1	THP	Unit- I	0.00	400kV THP - Siliguri Fdr- I	0.00		Unit-V & 400kV THP-SIL Fdr I under AM & V standby. Unit-I, II & III under AM	
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	24.27	+		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00			
		Unit- IV	60.90	400kV THP - Malbase Fdr- III	103.54	+		
		Unit- V	0.00	400kV Malbase - Siliguri	6.64	+		
		Unit- VI	70.41					
		Total	131.31	Error At Station/Auxiliary Consumption/Losses		3.50		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	8.50	+	Unit I under AM. Unit-II Standby 220kV CHP_MAL line & 66kV CHP-GED line under maintenance.	
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	8.60	+		
		Unit- III	30.90	220kV CHP - Malbase Fdr- III	0.00			
		Unit- IV	37.92	220kV CHP - Semtokha Fdr- IV	32.31	+		
				220kV Malbase - Birpara Fdr.	-55.55	-		
				66kV CHP - Chumdo Fdr.	16.20	+		
				66kV CHP - Gedu Fdr.	0.00			
		Total	68.82	Error At Station/Auxiliary Consumption/Losses		1.94		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	3.96	+	Upper stage Unit I & Lower Stage- Unit II AM.	
		Unit- II	5.30	66kV BHP - Lobeysa Fdr.	10.66	+		
		Total	5.30	220kV BHP - Tsirang Fdr.		0.72		+
	BHP (L/S)	Unit- I	10.50	5MVA, 66/11kV TFR		0.56		+
		Total	10.50	Error At Station/Auxiliary Consumption/Losses		-0.10		
4	DHPC	Unit-I	16.52	220kV DHPC - Tsirang Fdr.	16.31	+	Unit-II maintenance.	
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00			
				5MVA, 220/33kV TFR		0.00		
		Total	16.52	Error At Station/Auxiliary Consumption/Losses		0.21		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	10.66	+	Unit I & II Standby Unit-III under AM	
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.04	+		
		Unit- III	0.00	5MVA, 132/11kV TFR		0.40		+
		Unit- IV	16.21	132kV Gelephu - Salakati Fdr.		-20.16		-
				132kV Motanga - Rangia Fdr.		3.24		+
				220kV Tsirang - Jigmeling		14.40		+
		Total	16.21	Error At Station/Auxiliary Consumption/Losses		0.11		

Note: Load summary on February 22, 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	232.45	225.59	220.04	-7.54	5.55
2	Eastern Grid	16.21	47.53	47.42	-16.92	0.11
Total		248.66	273.12	267.46	-24.46	5.66

Note: Load Summary on February 22, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	275.74	309.79	313.19
2	Eastern Grid	52.28	59.66	72.02
National		328.02	369.45	385.21

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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