

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: June 27, 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	193.00	+	THP Unit-I in spinning mode
		Unit- II	185.00	400kV THP - Siliguri Fdr- II	193.00	+	
		Unit- III	150.00	400kV THP - Siliguri Fdr- IV	188.00	+	
		Unit- IV	120.00	400kV THP - Malbase Fdr- III	242.00	+	
		Unit- V	185.00	400kV Malbase - Siliguri	170.00	+	
		Unit- VI	184.50				
		Total	824.50	Error At Station/Auxiliary Consumption/Losses		8.50	
2	CHP	Unit- I	91.00	220kV CHP - Birpara Fdr- I	90.36	+	
		Unit- II	92.00	220kV CHP - Birpara Fdr- II	90.13	+	
		Unit- III	92.00	220kV CHP - Malbase Fdr- III	148.32	+	
		Unit- IV	92.00	220kV CHP - Semtokha Fdr- IV	23.45	+	
				220kV Malbase - Birpara Fdr.	34.00	+	
				66kV CHP - Chumdo Fdr.	4.90	+	
				66kV CHP - Gedu Fdr.	7.60	+	
				3x3MVA, 66/11kV TFR	1.17	+	
		Total	367.00	Error At Station/Auxiliary Consumption/Losses		1.07	
3	BHP (U/S)	Unit- I	5.30	220kV BHP - Semtokha Fdr.	13.63	+	
		Unit- II	5.40	66kV BHP - Lobeysa Fdr.	11.86	+	
		Total	10.70	220kV BHP - Tsirang Fdr.		8.90	
	BHP (L/S)	Unit- I	12.10	5MVA, 66/11kV TFR	0.91	+	
		Unit- II	13.30	30MVA ICT, 220/66kV			
		Total	25.40	Error At Station/Auxiliary Consumption/Losses		0.80	
4	DHPC	Unit-I	43.31	220kV DHPC - Tsirang Fdr.	43.07	+	Unit-II standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	43.31	Error At Station/Auxiliary Consumption/Losses		0.24	
5	KHP	Unit- I	16.56	132kV KHP - Nangkhor Fdr- I	58.76	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.51	132kV KHP - Kilikhar Fdr- II	6.67	+	
		Unit- III	16.53	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.56	132kV Gelephu - Salakati Fdr.	21.42	+	
				132kV Motanga - Rangia Fdr.	44.15	+	
				220kV Tsirang - Jigmeling	56.52	+	
		Total	66.16	Error At Station/Auxiliary Consumption/Losses		0.13	

Note: Load summary on June 27, 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	1,270.91	255.90	245.29	958.49	10.61
2	Eastern Grid	66.16	57.11	56.98	65.57	0.13
	Total	1,337.07	313.01	302.27	1,024.06	10.74

Note: Load Summary on June 27, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	236.10	244.56	261.96
2	Eastern Grid	44.54	47.30	61.02
	National	280.64	291.86	322.98

NOTES: Loads are collected from site

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: June 28, 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	223.00	+	Unit-I Spinning mode
		Unit- II	185.00	400kV THP - Siliguri Fdr- II	224.00	+	
		Unit- III	184.60	400kV THP - Siliguri Fdr- IV	217.00	+	
		Unit- IV	185.60	400kV THP - Malbase Fdr- III	249.00	+	
		Unit- V	184.20	400kV Malbase - Siliguri	204.00	+	
		Unit- VI	183.00				
		Total	922.40	Error At Station/Auxiliary Consumption/Losses	9.40		
2	CHP	Unit- I	89.00	220kV CHP - Birpara Fdr- I	93.40	+	
		Unit- II	90.00	220kV CHP - Birpara Fdr- II	93.30	+	
		Unit- III	89.40	220kV CHP - Malbase Fdr- III	164.50	+	
		Unit- IV	89.00	220kV CHP - Semtokha Fdr- IV	-5.80	-	
				220kV Malbase - Birpara Fdr.	26.00		
				66kV CHP - Chumdo Fdr.	2.00	+	
				66kV CHP - Gedu Fdr.	8.60	+	
				3x3MVA, 66/11kV TFR	0.82	+	
		Total	357.40	Error At Station/Auxiliary Consumption/Losses	0.58		
3	BHP (U/S)	Unit- I	5.40	220kV BHP - Semtokha Fdr.	28.44	+	
		Unit- II	5.50	66kV BHP - Lobeysa Fdr.	10.60	+	
		Total	10.90	220kV BHP - Tsirang Fdr.	-3.24	-	
	BHP (L/S)	Unit- I	11.90	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	13.00	30MVA ICT, 220/66kV			
		Total	24.90	Error At Station/Auxiliary Consumption/Losses	-0.89		
4	DHPC	Unit-I	50.35	220kV DHPC - Tsirang Fdr.	50.06	+	Unit-II standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		Total	50.35	Error At Station/Auxiliary Consumption/Losses	0.29		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	61.85	+	NOTE:MOTANGA SUBSTATION IS BYPASSED THROUGH ERS TOWER
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	3.40	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	25.28	+	
				132kV Motanga - Rangia Fdr.	42.31	+	
				220kV Tsirang - Jigmeling	42.83	+	
		Total	66.00	Error At Station/Auxiliary Consumption/Losses	0.15		

Note: Load summary on June 28, 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	1,365.95	242.42	233.04	1,080.70	9.38
2	Eastern Grid	66.00	41.24	41.09	67.59	0.15
	Total	1,431.95	283.66	274.13	1,148.29	9.53

Note: Load Summary on June 28, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	224.52	228.05	261.96
2	Eastern Grid	32.00	47.83	61.02
	National	256.52	275.88	322.98

NOTES: Western load collected from site.

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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