

LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

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

Date: April 28, 2018
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		Unit-III under annual maintenance. Unit- IV Standby. Unit-I and V under break down. 400kV THP-SIL fdr I breakdown . 400kV THP_SIL IV under shutdown
		Unit- II	100.01	400kV THP - Siliguri Fdr- II	42.97	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	163.15	+	
		Unit- V	0.00	400kV Malbase - Siliguri	15.86	+	
		Unit- VI	109.72				
		Total	209.73	Error At Station/Auxiliary Consumption/Losses	3.61		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-5.21	-	Unit-I under annual maintenance & unit-II under standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-5.12	-	
		Unit- III	50.73	220kV CHP - Malbase Fdr- III	18.26	+	
		Unit- IV	48.81	220kV CHP - Semtokha Fdr- IV	68.45	+	
				220kV Malbase - Birpara Fdr.	-22.31	-	
				66kV CHP - Chumdo Fdr.	17.87	+	
				66kV CHP - Gedu Fdr.	2.41	+	
		Total	99.54	Error At Station/Auxiliary Consumption/Losses	2.04		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	-29.14	-	BHP (U/S) unit I & BHP (L/S) unit-I on standby.
		Unit- II	4.13	66kV BHP - Lobeysa Fdr.	10.13	+	
		Total	4.13	220kV BHP - Tsirang Fdr.	30.62	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	8.68	30MVA ICT, 220/66kV	0.00		
		Total	8.68	Error At Station/Auxiliary Consumption/Losses	0.50		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	-0.14		DHPC units under shutdown till 30/04/2018
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	0.00	Error At Station/Auxiliary Consumption/Losses	0.14		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	20.72	+	Unit-I & IV Standby
		Unit-II	15.38	132kV KHP - Kilikhar Fdr- II	9.35	+	
		Unit- III	15.62	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-11.12	-	
				132kV Motanga - Rangia Fdr.	20.46	+	
				220kV Tsirang - Jigmeling	29.24	+	
		Total	31.00	Error At Station/Auxiliary Consumption/Losses	0.53		

Note: Load summary on April 28, 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	322.08	266.65	260.36	26.19	6.29
2	Eastern Grid	31.00	50.90	50.37	9.34	0.53
	Total	353.08	317.55	310.73	35.53	6.82

Note: Load Summary on April 28, 2017 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.67	264.79	279.08
2	Eastern Grid	60.73	60.73	63.98
	National	316.40	325.52	338.53

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: April 29, 2018
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-III under annual maintenance. Unit- IV Standby. Unit-I and V under breakdown.400kV THP-SIL fdr I breakdown. 400kV THP_SILI IV under antitheft charge
		Unit- II	96.98	400kV THP - Siliguri Fdr- II	56.23	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	148.24	+	
		Unit- V	0.00	400kV Malbase - Siliguri	30.52	+	
		Unit- VI	109.75				
		Total	206.73	Error At Station/Auxiliary Consumption/Losses	2.26		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	4.83	+	Unit-I under Annual Maintenance and unit-II under standby.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	4.64	+	
		Unit- III	50.69	220kV CHP - Malbase Fdr- III	49.06	+	
		Unit- IV	51.64	220kV CHP - Semtokha Fdr- IV	27.11	+	
				220kV Malbase - Birpara Fdr.	-29.95	-	
				66kV CHP - Chumdo Fdr.	12.91	+	
				66kV CHP - Gedu Fdr.	1.70	+	
		Total	102.33	Error At Station/Auxiliary Consumption/Losses	1.43		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	1.29		BHP (U/S) unit I & BHP (L/S) unit-I on standby.
		Unit- II	4.94	66kV BHP - Lobeysa Fdr.	8.78		
		Total	4.94	220kV BHP - Tsirang Fdr.	4.75	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.27	+	
		Unit- II	10.33	30MVA ICT, 220/66kV			
		Total	10.33	Error At Station/Auxiliary Consumption/Losses	0.18		
4	DHPC	Unit-I	23.04	220kV DHPC - Tsirang Fdr.	22.85		DHPC units II on Standby
		Unit-II	0.00	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		Total	23.04	Error At Station/Auxiliary Consumption/Losses	0.19		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	27.85	+	Unit-I & IV on standby
		Unit-II	16.52	132kV KHP - Kilikhar Fdr- II	4.32	+	
		Unit- III	16.42	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-1.76	-	
				132kV Motanga - Rangia Fdr.	15.09	+	
				220kV Tsirang - Jigmeling	26.21	+	
		Total	32.94	Error At Station/Auxiliary Consumption/Losses	0.37		

Note: Load summary on April 29, 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	347.37	254.89	250.83	66.27	4.06
2	Eastern Grid	32.94	45.82	45.45	13.33	0.37
	Total	380.31	300.71	296.28	79.60	4.43

Note: Load Summary on April 29, 2017 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	247.60	265.19	279.08
2	Eastern Grid	45.53	59.90	63.98
	National	293.13	325.09	338.53

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.
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