

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

**Date:** April 6, 2019  
**Hours:** 19:00 Hours

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

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		Fdr IV Idle charged. Fdr I Standby. Unit III,IV & V standby. Unit-I under AM
		Unit- II	178.40	400kV THP - Siliguri Fdr- II	142.89	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	211.17	+	
		Unit- V	0.00	400kV Malbase - Siliguri	115.89	+	
		Unit- VI	180.97				
		<b>Total</b>	<b>359.37</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>5.31</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	15.38		Unit I & IV under AM. □
		Unit- II	84.96	220kV CHP - Birpara Fdr- II	15.46		
		Unit- III	84.48	220kV CHP - Malbase Fdr- III	65.72	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	52.13	+	
				220kV Malbase - Birpara Fdr.	-24.96	-	
				66kV CHP - Chumdo Fdr.	12.73	+	
				66kV CHP - Gedu Fdr.	5.91	+	
				3x3MVA, 66/11kV TFR	1.68	+	
		<b>Total</b>	<b>169.44</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.43</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	2.88	+	Upper & Lower stage Unit I Standby. □
		Unit- II	11.27	66kV BHP - Lobeysa Fdr.	16.59	+	
		<b>Total</b>	<b>11.27</b>	220kV BHP - Tsirang Fdr.	12.08	+	
	BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.32	+	
		Unit- II	20.84	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>20.84</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	18.00	+	Unit-I under AM
		Unit-II	18.29	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>18.29</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.29</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	20.88	+	Unit-I under AM. Unit-IV at standby.
		Unit-II	15.94	132kV KHP - Kilikhar Fdr- II	9.93	+	
		Unit- III	15.83	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-7.48	-	
				132kV Motanga - Rangia Fdr.	19.66	+	
				220kV Tsirang - Jigmeling	34.92	+	
		<b>Total</b>	<b>31.77</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.56</b>		

**Note: Load summary on April 06, 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	579.21	279.63	273.36	264.66	6.27
2	Eastern Grid	31.77	54.51	53.95	12.18	0.56
	<b>Total</b>	610.98	334.14	327.31	276.84	6.83

**Note: Load Summary on April 06, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	252.34	292.68	304.53
2	Eastern Grid	44.19	62.79	71.59
	<b>National</b>	<b>296.53</b>	<b>355.47</b>	<b>376.12</b>

**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:** April 7, 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		Fdr IV Idle charged. Fdr I Standby. Unit-I under shutdown. Unit III & IV standby.
		Unit- II	137.00	400kV THP - Siliguri Fdr- II	179.81	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	231.43	+	
		Unit- V	137.80	400kV Malbase - Siliguri	153.85	+	
		Unit- VI	141.35				
		<b>Total</b>	<b>416.15</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>4.91</b>		
2	CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	36.99	+	Unit I & IV under AM.
		Unit- II	90.19	220kV CHP - Birpara Fdr- II	36.68	+	
		Unit- III	91.17	220kV CHP - Malbase Fdr- III	94.95	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-2.45	-	
				220kV Malbase - Birpara Fdr.	-12.53	-	
				66kV CHP - Chumdo Fdr.	7.10	+	
				66kV CHP - Gedu Fdr.	6.25	+	
				3x3MVA, 66/11kV TFR	1.25	+	
		<b>Total</b>	<b>181.36</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.59</b>		
3	BHP (U/S)	Unit- I	0.00	220kV BHP - Semtokha Fdr.	42.00	+	Upper stage Unit I Standby. □
		Unit- II	8.50	66kV BHP - Lobeysa Fdr.	11.70	+	
		<b>Total</b>	<b>8.50</b>	220kV BHP - Tsirang Fdr.	-28.91	-	
	BHP (L/S)	Unit- I	8.40	5MVA, 66/11kV TFR	0.42	+	
		<b>Total</b>	<b>17.10</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.39</b>		
4	DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	32.01	+	Unit-I under AM
		Unit-II	32.23	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>32.23</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
5	KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	33.34	+	Unit-I under AM.
		Unit-II	13.09	132kV KHP - Kilikhar Fdr- II	5.83	+	
		Unit- III	16.09	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	10.64	132kV Gelephu - Salakati Fdr.	15.85	+	
				132kV Motanga - Rangia Fdr.	-17.02	-	
				220kV Tsirang - Jigmeling	-2.19	-	
		<b>Total</b>	<b>39.82</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.25</b>		

**Note: Load summary on April 07, 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	655.34	262.73	256.62	394.80	6.11
2	Eastern Grid	39.82	38.80	38.55	-1.17	0.25
	<b>Total</b>	695.16	301.53	295.17	393.63	6.36

**Note: Load Summary on April 07, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	263.44	293.75	304.53
2	Eastern Grid	48.86	58.26	71.59
	<b>National</b>	<b>312.30</b>	<b>352.01</b>	<b>376.12</b>

**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.