

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	December 18, 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	1020MW THP	Unit- I	70.00	400kV THP - Siliguri Fdr- I	69.00	+	Unit-III at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown	
		Unit- II	150.00	400kV THP - Siliguri Fdr- II	67.00	+		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00			
		Unit- IV	60.00	400kV THP - Malbase Fdr- III	136.00	+		
		Unit- V	0.00	400kV Malbase - Siliguri	50.00	+		
		Unit- VI	0.00	-	-	-		
		<b>Total</b>	<b>280.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>8.00</b>		
2	720MW MHP	Unit-I	128.8	400kV MHP - Jigmeling Fdr - I	0.00		Unit-II, III IV under maintenance. MHP-JLG I under breakdown.	
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	125.00	+		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III				
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV				
		-	-	200MVA, 400/132kV ICT				
		-	-	(Local Load)				
		<b>Total</b>	<b>128.80</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>3.80</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdown. 220kV CHP-Bir 1 under satndby	
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	7.80	+		
		Unit- III	71.00	220kV CHP - Malbase Fdr- III	54.60	+		
		Unit- IV	71.00	220kV CHP - Sementokha Fdr- IV	54.00	+		
		-	-	220kV Malbase - Birpara Fdr.	-32.00	-		
		-	-	66kV CHP - Chumdo Fdr.	16.50	+		
		-	-	66kV CHP - Gedu Fdr.	3.50	+		
		-	-	3x3MVA, 66/11kV TFR	1.60	+		
		<b>Total</b>	<b>142.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>4.00</b>		
3	24MW BHP (U/S)	Unit- I	8.30	220kV BHP - Sementokha Fdr.	11.44	+	U/S Unit-II under maintenace. L/S Unit-I at standby.	
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.71	+		
		<b>Total</b>	<b>8.30</b>	220kV BHP - Tsirang Fdr.	-5.44	-		
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.98	+		
		Unit- II	16.80	30MVA ICT, 220/66kV				
<b>Total</b>	<b>16.80</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>0.41</b>				
4	126MW DHPC	Unit-I	25.70	220kV DHPC - Tsirang Fdr.	25.42	+	Unit II at Standby.	
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.				
		-	-	5MVA, 220/33kV TFR				
		<b>Total</b>	<b>25.70</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>0.28</b>		
5	60MW KHP	Unit- I	12.99	132kV KHP - Nangkhor Fdr- I	15.93	+	Unit-III at standby. Unit-II under shutdown.	
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.50	+		
		Unit- III	0.00	5MVA, 132/11kV TFR	0.60	+		
		Unit- IV	13.09	132kV Gelephu - Salakati Fdr.	-20.69	-		
		-	-	132kV Motanga - Rangia Fdr.	-5.91	-		
		-	-	220kV Tsirang - Jigmeling	16.08	+		
		<b>Total</b>	<b>26.08</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>0.05</b>		

**Note: Load summary on December 18, 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	472.80	294.92	282.23	161.80	12.69
2	Eastern Grid	154.88	72.56	68.71	98.40	3.85
	<b>Total</b>	627.68	367.48	350.94	260.20	16.54

**Note: Load Summary on December 18, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	294.95	296.00	319.28
2	Eastern Grid	59.89	63.42	71.32
	<b>National</b>	<b>354.84</b>	<b>359.42</b>	<b>390.60</b>

**NOTES: ALL WESTERN LOADS COLLECTED FROM SITE**

- 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:
  - 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.
  - The clocks of all the locations are not synchronized.
- 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:	December 19, 2019
Hours:	09:00 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	1020MW THP	Unit- I	70.00	400kV THP - Siliguri Fdr- I	40.00	+	Unit- III under standby Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	60.00	400kV THP - Siliguri Fdr- II	39.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	60.00	400kV THP - Malbase Fdr- III	104.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	19.00	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>190.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>7.00</b>		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & IV under maintenance. Unit I standby 400kV MHP-JLG I under breakdown.
		Unit-II	129.14	400kV MHP - Jigmeling Fdr - II	127.30	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV			
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>129.14</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.84</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00	+	Unit-I & II under shutdownn. 220kV CHP-BIR I under standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-4.50	-	
		Unit- III	50.00	220kV CHP - Malbase Fdr- III	46.09	+	
		Unit- IV	49.00	220kV CHP - Sementokha Fdr- IV	36.70	+	
		-	-	220kV Malbase - Birpara Fdr.	-41.00	-	
		-	-	66kV CHP - Chumdo Fdr.	12.80	+	
		-	-	66kV CHP - Gedu Fdr.	3.40	+	
		-	-	3x3MVA, 66/11kV TFR	1.80	+	
		<b>Total</b>	<b>99.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.71</b>		
4	24MW BHP (U/S)	Unit- I	8.40	220kV BHP - Sementokha Fdr.	21.47	+	
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.37	+	
		<b>Total</b>	<b>8.40</b>	220kV BHP - Tsirang Fdr.	-13.98	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	16.40	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>16.40</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.04</b>		
5	126MW DHPC	Unit-I	24.74	220kV DHPC - Tsirang Fdr.	24.51	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>24.74</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
6	60MW KHP	Unit- I	12.55	132kV KHP - Nangkhor Fdr- I	16.02	+	Unit-II under shutdown. Unit-III Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.36	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	10.39	132kV Gelephu - Salakati Fdr.	-16.91	-	
		-	-	132kV Motanga - Rangia Fdr.	-5.46	-	
		-	-	220kV Tsirang - Jigmeling	10.00	+	
		<b>Total</b>	<b>22.94</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.06</b>		

Note: Load summary on December 19, 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	338.54	276.04	265.06	52.50	10.98
2	Eastern Grid	152.08	57.15	55.25	104.93	1.90
	<b>Total</b>	490.62	333.19	320.31	157.43	12.88

Note: Load Summary on December 19, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	290.44	297.36	319.28
2	Eastern Grid	57.22	65.95	71.32
	<b>National</b>	<b>347.66</b>	<b>363.31</b>	<b>390.60</b>

**NOTES:ALL WESTERN LOADS COLLECTED FROM SITE**

- 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:
  - 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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