

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	December 8, 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	79.00	+	Unit- IV, V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	79.00	+	
		Unit- III	160.00	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	137.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	60.00	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>300.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>5.00</b>		
2	720MW MHP	Unit-I	120.32	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	118.90	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		<b>Total</b>	<b>120.32</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.42</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	2.10	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	2.20	+	
		Unit- III	65.00	220kV CHP - Malbase Fdr- III	58.00	+	
		Unit- IV	68.00	220kV CHP - Sementokha Fdr- IV	46.90	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.00	-	
		-	-	66kV CHP - Chumdo Fdr.	15.50	+	
		-	-	66kV CHP - Gedu Fdr.	4.20	+	
		-	-	3x3MVA, 66/11kV TFR	2.04	+	
		<b>Total</b>	<b>133.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.06</b>		
3	24MW BHP (U/S)	Unit- I	9.00	220kV BHP - Sementokha Fdr.	16.30	+	U/S Unit-II under maintenance. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.39	+	
		<b>Total</b>	<b>9.00</b>	220kV BHP - Tsirang Fdr.	-8.18	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	18.60	30MVA ICT, 220/66kV			
<b>Total</b>	<b>18.60</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.11</b>				
4	126MW DHPC	Unit-I	27.22	220kV DHPC - Tsirang Fdr.	27.00	+	Unit II at Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>27.22</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhoh Fdr- I	15.07	+	Unit-I at standby. Unit-II under shutdown.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	9.83	+	
		Unit- III	13.28	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	12.30	132kV Gelephu - Salakati Fdr.	-21.20	-	
		-	-	132kV Motanga - Rangia Fdr.	-23.38	-	
		-	-	220kV Tsirang - Jigmeling	16.31	+	
		<b>Total</b>	<b>25.58</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.48</b>		

**Note: Load summary on December 08, 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	487.82	287.21	278.82	184.30	8.39
2	Eastern Grid	145.90	87.89	85.99	74.32	1.90
	<b>Total</b>	<b>633.72</b>	<b>375.10</b>	<b>364.81</b>	<b>258.62</b>	<b>10.29</b>

**Note: Load Summary on December 08, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	278.64	283.65	319.28
2	Eastern Grid	56.30	61.32	71.32
	<b>National</b>	<b>334.94</b>	<b>344.97</b>	<b>390.60</b>

**NOTES:**

- 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 9, 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	53.00	+	Unit- IV under maintenance Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	70.00	400kV THP - Siliguri Fdr- II	53.00	+	
		Unit- III	80.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	108.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	35.00	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>220.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>6.00</b>		
2	720MW MHP	Unit-I	146.23	400kV MHP - Jigmeling Fdr - I	0.00		Unit- II, III & IV under maintenance. 400kV MHP-JLG I under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	146.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		<b>Total</b>	<b>146.23</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	-0.90	-	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-1.00	-	
		Unit- III	47.00	220kV CHP - Malbase Fdr- III	62.00	+	
		Unit- IV	60.00	220kV CHP - Sementokha Fdr- IV	25.20	+	
		-	-	220kV Malbase - Birpara Fdr.	-48.00	-	
		-	-	66kV CHP - Chumdo Fdr.	12.10	+	
		-	-	66kV CHP - Gedu Fdr.	4.30	+	
		-	-	3x3MVA, 66/11kV TFR	1.80	+	
<b>Total</b>	<b>107.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>3.50</b>				
4	24MW BHP (U/S)	Unit- I	8.90	220kV BHP - Sementokha Fdr.	33.12	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	19.62	+	
		<b>Total</b>	<b>8.90</b>	220kV BHP - Tsirang Fdr.	-20.62	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	17.80	30MVA ICT, 220/66kV			
<b>Total</b>	<b>17.80</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-6.32</b>				
5	126MW DHPC	Unit-I	26.65	220kV DHPC - Tsirang Fdr.	26.00	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>26.65</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.65</b>		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhon Fdr- I	16.46	+	Unit-II under shutdown. Unit-I Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.61	+	
		Unit- III	13.28	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	12.38	132kV Gelephu - Salakati Fdr.	-18.20	-	
		-	-	132kV Motanga - Rangia Fdr.	-21.35	-	
		-	-	220kV Tsirang - Jigmeling	2.50	+	
		<b>Total</b>	<b>25.66</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.29</b>		

Note: Load summary on December 09, 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	380.35	286.75	282.92	91.10	3.83
2	Eastern Grid	171.89	67.94	65.42	106.45	2.52
	<b>Total</b>	<b>552.24</b>	<b>354.69</b>	<b>348.34</b>	<b>197.55</b>	<b>6.35</b>

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	245.02	276.24	319.28
2	Eastern Grid	46.63	56.40	71.32
	<b>National</b>	<b>291.65</b>	<b>332.64</b>	<b>390.60</b>

**NOTES:**

- 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.