

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	December 3, 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	67.85	400kV THP - Siliguri Fdr- I	82.99	+	Unit-II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	80.49	+	
		Unit- III	159.56	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	91.02	400kV THP - Malbase Fdr- III	146.97	+	
		Unit- V	0.00	400kV Malbase - Siliguri	63.24	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>318.43</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>7.98</b>		
2	720MW MHP	Unit-I	150.30	400kV MHP - Jigmeling Fdr - I	149.00	+	Unit-II, III & IV under maintenance. 400kV MHP-JLG II under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	-	
		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)	0.00	-	
		<b>Total</b>	<b>150.30</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.30</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	7.29	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	7.12	+	
		Unit- III	70.43	220kV CHP - Malbase Fdr- III	65.74	+	
		Unit- IV	72.64	220kV CHP - Sementokha Fdr- IV	40.43	+	
		-	-	220kV Malbase - Birpara Fdr.	-38.30	-	
		-	-	66kV CHP - Chumdo Fdr.	14.89	+	
		-	-	66kV CHP - Gedu Fdr.	5.14	+	
		-	-	3x3MVA, 66/11kV TFR	1.90	+	
		<b>Total</b>	<b>143.07</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.56</b>		
3	24MW BHP (U/S)	Unit- I	0.00	220kV BHP - Sementokha Fdr.	21.01	+	U/S Unit-I under maintenace. L/S Unit-II standby.
		Unit- II	9.32	66kV BHP - Lobeysa Fdr.	17.18	+	
		<b>Total</b>	<b>9.32</b>	220kV BHP - Tsirang Fdr.	-10.33	-	
	40MW BHP (L/S)	Unit- I	19.20	5MVA, 66/11kV TFR	0.89	+	
		Unit- II	0.00	30MVA ICT, 220/66kV		-	
<b>Total</b>	<b>19.20</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>				
4	126MW DHPC	Unit-I	28.96	220kV DHPC - Tsirang Fdr.	28.72	+	Unit II Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.		-	
		-	-	5MVA, 220/33kV TFR		-	
		<b>Total</b>	<b>28.96</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
5	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	20.61	+	Unit-II under shutdown . Unit-I standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	8.63	+	
		Unit- III	15.26	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.98	132kV Gelephu - Salakati Fdr.	-18.01	-	
		-	-	132kV Motanga - Rangia Fdr.	0.00	+	
		-	-	220kV Tsirang - Jigmeling	16.00	+	
		<b>Total</b>	<b>30.24</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.70</b>		

Note: Load summary on December 03, 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	518.98	300.15	291.60	202.83	8.55
2	Eastern Grid	180.54	65.55	63.55	130.99	2.00
	<b>Total</b>	<b>699.52</b>	<b>365.70</b>	<b>355.15</b>	<b>333.82</b>	<b>10.55</b>

Note: Load Summary on December 03, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	278.73	278.73	319.28
2	Eastern Grid	50.08	68.66	71.32
	<b>National</b>	<b>328.81</b>	<b>347.39</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 4, 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	70.18	400kV THP - Siliguri Fdr- I	63.03	+	Unit- II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	62.64	+	
		Unit- III	80.07	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	90.93	400kV THP - Malbase Fdr- III	111.61	+	
		Unit- V	0.00	400kV Malbase - Siliguri	47.78	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>241.18</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>3.90</b>		
2	720MW MHP	Unit-I	150.00	400kV MHP - Jigmeling Fdr - I	147.00	+	Unit-II, III & IV under maintenance. 400kV MHP-JLG II under breakdown.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00	+	
		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>150.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>3.00</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	6.67	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	6.66	+	
		Unit- III	58.56	220kV CHP - Malbase Fdr- III	65.62	+	
		Unit- IV	58.06	220kV CHP - Sementokha Fdr- IV	20.21	+	
		-	-	220kV Malbase - Birpara Fdr.	-39.04	-	
		-	-	66kV CHP - Chumdo Fdr.	10.77	+	
		-	-	66kV CHP - Gedu Fdr.	5.08	+	
		-	-	3x3MVA, 66/11kV TFR	1.33	+	
<b>Total</b>	<b>116.62</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.28</b>				
4	24MW BHP (U/S)	Unit- I	9.32	220kV BHP - Sementokha Fdr.	29.26	+	Upper stage Unit-II shutdown. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.02	+	
		<b>Total</b>	<b>9.32</b>	220kV BHP - Tsirang Fdr.	-16.69	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.50	+	
		Unit- II	18.68	30MVA ICT, 220/66kV		-	
<b>Total</b>	<b>18.68</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.09</b>				
5	126MW DHPC	Unit-I	29.27	220kV DHPC - Tsirang Fdr.	29.06	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.		-	
		-	-	5MVA, 220/33kV TFR		-	
		<b>Total</b>	<b>29.27</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.21</b>		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	22.77	+	Unit-II under shutdown. Unit-I Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	5.02	+	
		Unit- III	15.01	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	13.33	132kV Gelephu - Salakati Fdr.	-16.02	-	
		-	-	132kV Motanga - Rangia Fdr.	-7.02	-	
		-	-	220kV Tsirang - Jigmeling	10.16	+	
		<b>Total</b>	<b>28.34</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.25</b>		

Note: Load summary on December 04, 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	415.07	257.17	252.87	147.74	4.30
2	Eastern Grid	178.34	64.54	61.29	123.96	3.25
	<b>Total</b>	<b>593.41</b>	<b>321.71</b>	<b>314.16</b>	<b>271.70</b>	<b>7.55</b>

Note: Load Summary on December 04, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	269.57	288.77	319.28
2	Eastern Grid	52.51	63.85	71.32
	<b>National</b>	<b>322.08</b>	<b>352.62</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.