

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	December 1, 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	80.70	400kV THP - Siliguri Fdr- I	86.19	+	Unit-II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	85.32	+	
		Unit- III	150.42	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	90.98	400kV THP - Malbase Fdr- III	141.36	+	
		Unit- V	0.00	400kV Malbase - Siliguri	67.99	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>322.10</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>9.23</b>		
2	720MW MHP	Unit-I	147.00	400kV MHP - Jigmeling Fdr - I	144.70	+	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>147.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.30</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	10.82	+	Unit-I & II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	10.79	+	
		Unit- III	74.00	220kV CHP - Malbase Fdr- III	64.71	+	
		Unit- IV	75.47	220kV CHP - Sementokha Fdr- IV	41.35	+	
		-	-	220kV Malbase - Birpara Fdr.	-31.69	-	
		-	-	66kV CHP - Chumdo Fdr.	14.72	+	
		-	-	66kV CHP - Gedu Fdr.	4.48	+	
		-	-	3x3MVA, 66/11kV TFR	1.78	+	
		<b>Total</b>	<b>149.47</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.82</b>		
3	24MW BHP (U/S)	Unit- I	10.00	220kV BHP - Sementokha Fdr.	17.48	+	U/S Unit-II standby. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.77	+	
		<b>Total</b>	<b>10.00</b>	220kV BHP - Tsirang Fdr.	-5.09	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.87	+	
		Unit- II	19.40	30MVA ICT, 220/66kV			
<b>Total</b>	<b>19.40</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.37</b>				
4	126MW DHPC	Unit-I	30.22	220kV DHPC - Tsirang Fdr.	30.00	+	Unit II Standby.
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>30.22</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	20.98	+	Unit-II under shutdown . Unit-I standby.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.59	+	
		Unit- III	14.72	5MVA, 132/11kV TFR	0.30		
		Unit- IV	14.63	132kV Gelephu - Salakati Fdr.	-16.64	-	
		-	-	132kV Motanga - Rangia Fdr.	2.43	+	
		-	-	220kV Tsirang - Jigmeling	22.77	+	
		<b>Total</b>	<b>29.35</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.48</b>		

Note: Load summary on December 01, 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	531.19	279.00	268.36	229.42	10.64
2	Eastern Grid	176.35	68.63	65.85	130.49	2.78
	<b>Total</b>	<b>707.54</b>	<b>347.63</b>	<b>334.21</b>	<b>359.91</b>	<b>13.42</b>

Note: Load Summary on December 01, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	272.10	272.10	319.28
2	Eastern Grid	59.71	64.62	71.32
	<b>National</b>	<b>331.81</b>	<b>336.72</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 2, 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	70.16	400kV THP - Siliguri Fdr- I	60.43	+	Unit- II at standby. Unit- V & VI under shutdown. 400kV THP_SILI-IV standby.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	59.25	+	
		Unit- III	69.24	400kV THP - Siliguri Fdr- IV	0.00	-	
		Unit- IV	91.69	400kV THP - Malbase Fdr- III	109.61	+	
		Unit- V	0.00	400kV Malbase - Siliguri	45.32	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>231.09</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.80</b>		
2	720MW MHP	Unit-I	159.90	400kV MHP - Jigmeling Fdr - I	159.00	+	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>159.90</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.90</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	6.86	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	6.84	+	
		Unit- III	59.41	220kV CHP - Malbase Fdr- III	71.33	+	
		Unit- IV	59.00	220kV CHP - Sementokha Fdr- IV	15.28	+	
		-	-	220kV Malbase - Birpara Fdr.	-43.33	-	
		-	-	66kV CHP - Chumdo Fdr.	10.56	+	
		-	-	66kV CHP - Gedu Fdr.	5.07	+	
		-	-	3x3MVA, 66/11kV TFR	1.17	+	
<b>Total</b>	<b>118.41</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.30</b>				
4	24MW BHP (U/S)	Unit- I	9.50	220kV BHP - Sementokha Fdr.	31.36	+	Upper stage Unit-II standby. Lower Stage Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.15	+	
		<b>Total</b>	<b>9.50</b>	220kV BHP - Tsirang Fdr.	-16.91	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.51	+	
		Unit- II	19.21	30MVA ICT, 220/66kV		-	
<b>Total</b>	<b>19.21</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.40</b>				
5	126MW DHPC	Unit-I	30.25	220kV DHPC - Tsirang Fdr.	29.97	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.		-	
		-	-	5MVA, 220/33kV TFR		-	
		<b>Total</b>	<b>30.25</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.28</b>		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhoh Fdr- I	23.57	+	Unit-II under shutdown. Unit-I Standby
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.10	+	
		Unit- III	15.02	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.10	132kV Gelephu - Salakati Fdr.	-14.04	-	
		-	-	132kV Motanga - Rangia Fdr.	-8.34	-	
		-	-	220kV Tsirang - Jigmeling	10.66	+	
		<b>Total</b>	<b>29.12</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.15</b>		

Note: Load summary on December 02, 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	408.46	262.43	259.45	135.37	2.98
2	Eastern Grid	189.02	63.06	61.01	136.62	2.05
	<b>Total</b>	597.48	325.49	320.46	271.99	5.03

Note: Load Summary on December 02, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.70	290.06	319.28
2	Eastern Grid	41.46	59.65	71.32
	<b>National</b>	<b>281.16</b>	<b>349.71</b>	<b>390.60</b>

**NOTES:**

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  - 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.