

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	November 19, 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	99.51	400kV THP - Siliguri Fdr- I	101.94	+	Unit-III at standby. Unit-IV & V under shutdown. 400kV THP_SILI II under Maintenance.
		Unit- II	102.22	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	97.90	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	156.18	+	
		Unit- V	0.00	400kV Malbase - Siliguri	82.67	+	
		Unit- VI	160.32	-	-	-	
		<b>Total</b>	<b>362.05</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>6.03</b>		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	90.20	+	Unit I & II at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	86.50	+	
		Unit-III	120.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	62.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		<b>Total</b>	<b>182.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>5.30</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	22.10	+	Unit-I & II under shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	22.16	+	
		Unit- III	85.23	220kV CHP - Malbase Fdr- III	80.13	+	
		Unit- IV	86.50	220kV CHP - Sementokha Fdr- IV	27.64	+	
		-	-	220kV Malbase - Birpara Fdr.	-25.55	-	
		-	-	66kV CHP - Chumdo Fdr.	12.91	+	
		-	-	66kV CHP - Gedu Fdr.	4.96	+	
		-	-	3x3MVA, 66/11kV TFR	1.57	+	
		<b>Total</b>	<b>171.73</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.26</b>		
3	24MW BHP (U/S)	Unit- I	5.63	220kV BHP - Sementokha Fdr.	24.63	+	
		Unit- II	5.63	66kV BHP - Lobeysa Fdr.	16.65	+	
		<b>Total</b>	<b>11.26</b>	220kV BHP - Tsirang Fdr.	-7.58	-	
	40MW BHP (L/S)	Unit- I	11.79	5MVA, 66/11kV TFR	0.57	+	
		Unit- II	11.28	30MVA ICT, 220/66kV			
<b>Total</b>	<b>23.07</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.06</b>				
4	126MW DHPC	Unit-I	34.41	220kV DHPC - Tsirang Fdr.	34.17	+	Unit II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>34.41</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
5	60MW KHP	Unit- I	12.00	132kV KHP - Nangkhor Fdr- I	30.03	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	6.21	+	
		Unit- III	12.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	12.00	132kV Gelephu - Salakati Fdr.	-8.49	-	
		-	-	132kV Motanga - Rangia Fdr.	14.16	+	
		-	-	220kV Tsirang - Jigmeling	23.88	+	
		<b>Total</b>	<b>36.50</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.24</b>		

Note: Load summary on November 19, 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	602.52	277.42	270.83	301.22	6.59
2	Eastern Grid	218.50	60.01	54.95	182.37	5.06
	<b>Total</b>	<b>821.02</b>	<b>337.43</b>	<b>325.78</b>	<b>483.59</b>	<b>11.65</b>

Note: Load Summary on November 19, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	260.41	266.61	281.60
2	Eastern Grid	48.39	50.84	62.24
	<b>National</b>	<b>308.80</b>	<b>317.45</b>	<b>343.84</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:	November 20, 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	100.09	400kV THP - Siliguri Fdr- I	80.17	+	Unit-III at standby. Unit-IV & V under shutdown. 400kV THP_SILL-II under Maintenance.
		Unit- II	98.90	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	76.80	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	117.99	+	
		Unit- V	0.00	400kV Malbase - Siliguri	68.02	+	
		Unit- VI	80.23	-	-	-	
		<b>Total</b>	<b>279.22</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>4.26</b>		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	86.50	+	Unit-I & IV under Maintenance. Unit-II at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	86.50	+	
		Unit-III	175.46	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>175.46</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.46</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	18.15	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	18.03	+	
		Unit- III	66.97	220kV CHP - Malbase Fdr- III	87.96	+	
		Unit- IV	71.96	220kV CHP - Sementokha Fdr- IV	-0.59	-	
		-	-	220kV Malbase - Birpara Fdr.	-37.52	-	
		-	-	66kV CHP - Chumdo Fdr.	8.75	+	
		-	-	66kV CHP - Gedu Fdr.	5.26	+	
		-	-	3x3MVA, 66/11kV TFR	1.01	+	
		<b>Total</b>	<b>138.93</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.36</b>		
4	24MW BHP (U/S)	Unit- I	5.60	220kV BHP - Sementokha Fdr.	43.64	+	
		Unit- II	5.60	66kV BHP - Lobeysa Fdr.	15.08	+	
		<b>Total</b>	<b>11.20</b>	220kV BHP - Tsirang Fdr.	-25.02	-	
	40MW BHP (L/S)	Unit- I	11.63	5MVA, 66/11kV TFR	0.47	+	
		Unit- II	11.12	30MVA ICT, 220/66kV			
<b>Total</b>	<b>22.75</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.22</b>				
5	126MW DHPC	Unit-I	34.95	220kV DHPC - Tsirang Fdr.	34.72	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>34.95</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
6	60MW KHP	Unit- I	12.36	132kV KHP - Nangkhor Fdr- I	29.08	+	Unit-II under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.11	+	
		Unit- III	11.44	5MVA, 132/11kV TFR	0.20	+	
		Unit- IV	10.11	132kV Gelephu - Salakati Fdr.	-10.11	-	
		-	-	132kV Motanga - Rangia Fdr.	7.70	+	
		-	-	220kV Tsirang - Jigmeling	6.92	+	
		<b>Total</b>	<b>33.91</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.52</b>		

Note: Load summary on November 20, 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	487.05	256.48	251.85	223.65	4.63
2	Eastern Grid	209.37	45.70	42.72	170.59	2.98
	<b>Total</b>	<b>696.42</b>	<b>302.18</b>	<b>294.57</b>	<b>394.24</b>	<b>7.61</b>

Note: Load Summary on November 20, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	248.61	284.42	293.93
2	Eastern Grid	34.91	48.32	62.30
	<b>National</b>	<b>283.52</b>	<b>332.74</b>	<b>356.23</b>

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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.
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