

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	November 21, 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	79.55	400kV THP - Siliguri Fdr- I	52.26	+	Unit-IV & V under shutdown. Unit-VI at standby. 400kV THP_SILI II under Maintenance.
		Unit- II	78.94	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	42.02	400kV THP - Siliguri Fdr- IV	49.75	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	93.40	+	
		Unit- V	0.00	400kV Malbase - Siliguri	39.79	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>200.51</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>5.10</b>		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	84.40	+	Unit-I & IV under Maintenance. Unit-II at standby.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	84.40	+	
		Unit-III	173.20	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>173.20</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>4.40</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	21.06	+	Unit-I & II under shutdown
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	21.10	+	
		Unit- III	84.80	220kV CHP - Malbase Fdr- III	78.17	+	
		Unit- IV	86.11	220kV CHP - Sementokha Fdr- IV	29.71	+	
		-	-	220kV Malbase - Birpara Fdr.	-24.48	-	
		-	-	66kV CHP - Chumdo Fdr.	13.57	+	
		-	-	66kV CHP - Gedu Fdr.	5.34	+	
		-	-	3x3MVA, 66/11kV TFR	1.63	+	
		<b>Total</b>	<b>170.91</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.33</b>		
		3	24MW BHP (U/S)	Unit- I	5.43	220kV BHP - Sementokha Fdr.	
Unit- II	5.43			66kV BHP - Lobeysa Fdr.	16.37	+	
<b>Total</b>	<b>10.86</b>			220kV BHP - Tsirang Fdr.	-8.69	-	
40MW BHP (L/S)	Unit- I		11.53	5MVA, 66/11kV TFR	0.69	+	
	Unit- II		11.03	30MVA ICT, 220/66kV			
<b>Total</b>	<b>22.56</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.05</b>				
4	126MW DHPC	Unit-I	34.38	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>34.38</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.21</b>		
5	60MW KHP	Unit- I	12.61	132kV KHP - Nangkhoh Fdr- I	28.25	+	Unit-II shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	7.13	+	
		Unit- III	12.60	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	10.15	132kV Gelephu - Salakati Fdr.	-8.19	-	
		-	-	132kV Motanga - Rangia Fdr.	12.57	+	
		-	-	220kV Tsirang - Jigmeling	22.50	+	
		<b>Total</b>	<b>35.36</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.42</b>		

Note: Load summary on November 21, 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	439.22	257.24	251.65	159.48	5.59
2	Eastern Grid	208.56	57.88	53.90	173.18	3.98
	<b>Total</b>	<b>647.78</b>	<b>315.12</b>	<b>305.55</b>	<b>332.66</b>	<b>9.57</b>

Note: Load Summary on November 21, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	266.71	266.71	281.60
2	Eastern Grid	49.08	54.81	62.24
	<b>National</b>	<b>315.79</b>	<b>321.52</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 22, 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	70.52	400kV THP - Siliguri Fdr- I	77.68	+	Unit-III at standby. Unit-IV & V under shutdown. 400kV THP_SILL-II under Maintenance.
		Unit- II	101.10	400kV THP - Siliguri Fdr- II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	72.49	+	
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	116.50	+	
		Unit- V	0.00	400kV Malbase - Siliguri	62.59	+	
		Unit- VI	101.37	-	-	-	
		<b>Total</b>	<b>272.99</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>6.32</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	177.78	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>177.78</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>4.78</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	17.62	+	Unit-I & II under shutdownn.
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	17.68	+	
		Unit- III	75.57	220kV CHP - Malbase Fdr- III	84.30	+	
		Unit- IV	69.53	220kV CHP - Sementokha Fdr- IV	1.74	+	
		-	-	220kV Malbase - Birpara Fdr.	-35.60	-	
		-	-	66kV CHP - Chumdo Fdr.	8.23	+	
		-	-	66kV CHP - Gedu Fdr.	5.95	+	
		-	-	3x3MVA, 66/11kV TFR	0.97	+	
		<b>Total</b>	<b>145.10</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>8.61</b>		
4	24MW BHP (U/S)	Unit- I	5.43	220kV BHP - Sementokha Fdr.	38.59	+	
		Unit- II	5.43	66kV BHP - Lobeysa Fdr.	13.94	+	
		<b>Total</b>	<b>10.86</b>	220kV BHP - Tsirang Fdr.	-20.14	-	
	40MW BHP (L/S)	Unit- I	11.19	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	10.75	30MVA ICT, 220/66kV			
<b>Total</b>	<b>21.94</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.02</b>				
5	126MW DHPC	Unit-I	34.04	220kV DHPC - Tsirang Fdr.	33.82	+	Unit-II at Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>34.04</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
6	60MW KHP	Unit- I	11.06	132kV KHP - Nangkhor Fdr- I	27.02	+	Unit-II under shutdown
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	4.01	+	
		Unit- III	10.27	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	10.25	132kV Gelephu - Salakati Fdr.	-6.20	+	
		-	-	132kV Motanga - Rangia Fdr.	11.39	+	
		-	-	220kV Tsirang - Jigmeling	12.30	+	
		<b>Total</b>	<b>31.58</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.25</b>		

Note: Load summary on November 22, 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	484.93	260.17	245.04	212.46	15.13
2	Eastern Grid	209.36	43.47	38.44	178.19	5.03
	<b>Total</b>	<b>694.29</b>	<b>303.64</b>	<b>283.48</b>	<b>390.65</b>	<b>20.16</b>

Note: Load Summary on November 22, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	260.71	270.66	293.93
2	Eastern Grid	38.33	53.57	62.30
	<b>National</b>	<b>299.04</b>	<b>324.23</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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