

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	October 30, 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	90.45	400kV THP - Siliguri Fdr- I	159.21	+	Unit II & V under shutdown. Unit-III under standby 400kV THP_SILI 1 line under standby	
		Unit- II	88.25	400kV THP - Siliguri Fdr- II	157.77	+		
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	153.75	+		
		Unit- IV	149.90	400kV THP - Malbase Fdr- III	0.00	-		
		Unit- V	0.00	400kV Malbase - Siliguri	-53.02	-		
		Unit- VI	150.56	-	-	-		
		<b>Total</b>	<b>479.16</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>8.43</b>		
2	720MW MHP	Unit-I	191.00	400kV MHP - Jigmeling Fdr - I	188.30	+	Unit-II standby & Unit-III under shutdown.	
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	187.60	+		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00			
		Unit-IV	192.30	400kV MHP - Jigmeling Fdr - IV	0.00			
		-	-	200MVA, 400/132kV ICT	0.00			
		-	-	(Local Load)	0.00			
		<b>Total</b>	<b>383.30</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>7.40</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	50.92	+	Unit-I under shutdown	
		Unit- II	81.53	220kV CHP - Birpara Fdr- II	51.02	+		
		Unit- III	79.94	220kV CHP - Malbase Fdr- III	101.05	+		
		Unit- IV	79.88	220kV CHP - Sementokha Fdr- IV	18.36	+		
		-	-	220kV Malbase - Birpara Fdr.	5.40	-		
		-	-	66kV CHP - Chumdo Fdr.	12.04	+		
		-	-	66kV CHP - Gedu Fdr.	6.22	+		
		-	-	3x3MVA, 66/11kV TFR	1.55	+		
		<b>Total</b>	<b>241.35</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>0.19</b>		
		3	24MW BHP (U/S)	Unit- I	7.86	220kV BHP - Sementokha Fdr.		30.09
Unit- II	7.86			66kV BHP - Lobeysa Fdr.	17.05	+		
<b>Total</b>	<b>15.72</b>		220kV BHP - Tsirang Fdr.		-0.56	-		
40MW BHP (L/S)	Unit- I		16.01	5MVA, 66/11kV TFR	0.64	+		
	Unit- II	15.36	30MVA ICT, 220/66kV					
<b>Total</b>	<b>31.37</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>0.13</b>				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	48.91	+	Unit I Standby	
		Unit-II	49.15	220kV Jigmeling - Dagapela Fdr.				
		-	-	5MVA, 220/33kV TFR				
		<b>Total</b>	<b>49.15</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>0.24</b>		
5	60MW KHP	Unit- I	15.11	132kV KHP - Nangkhor Fdr- I	36.46	+	Unit-III under shutdown	
		Unit-II	15.09	132kV KHP - Kilikhar Fdr- II	8.23	+		
		Unit- III	0.00	5MVA, 132/11kV TFR	0.50	+		
		Unit- IV	15.21	132kV Gelephu - Salakati Fdr.	10.64	+		
		-	-	132kV Motanga - Rangia Fdr.	16.47	+		
		-	-	220kV Tsirang - Jigmeling	45.80	+		
		<b>Total</b>	<b>45.41</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>		<b>0.22</b>		

Note: Load summary on October 30, 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	816.75	245.90	237.17	525.05	8.73
2	Eastern Grid	428.71	71.50	63.88	403.01	7.62
	<b>Total</b>	1,245.46	317.40	301.05	928.06	16.35

Note: Load Summary on October 30, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	270.62	270.62	281.60
2	Eastern Grid	50.86	53.75	62.24
	<b>National</b>	<b>321.48</b>	<b>324.37</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:	October 31, 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	148.64	400kV THP - Siliguri Fdr- I	0.00	+	Unit-II & V under shutdown. Unit-III under standby.400kV THP_SILI I line under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	121.19	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	113.97	+	
		Unit- IV	139.76	400kV THP - Malbase Fdr- III	165.62	+	
		Unit- V	0.00	400kV Malbase - Siliguri	103.25	+	
		Unit- VI	120.46	-	-	-	
		<b>Total</b>	<b>408.86</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>8.08</b>		
2	720MW MHP	Unit-I	81.80	400kV MHP - Jigmeling Fdr - I	120.70	+	Unit-II & III Standby
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	125.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	165.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>247.30</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.60</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	42.48	+	CHP Unit-I under shutdownn.
		Unit- II	65.50	220kV CHP - Birpara Fdr- II	42.47	+	
		Unit- III	61.24	220kV CHP - Malbase Fdr- III	108.43	+	
		Unit- IV	69.89	220kV CHP - Semtokha Fdr- IV	-11.26	-	
		-	-	220kV Malbase - Birpara Fdr.	-13.68	-	
		-	-	66kV CHP - Chumdo Fdr.	6.93	+	
		-	-	66kV CHP - Gedu Fdr.	6.58	+	
		-	-	3x3MVA, 66/11kV TFR	0.93	+	
		<b>Total</b>	<b>196.63</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.07</b>		
4	24MW BHP (U/S)	Unit- I	7.84	220kV BHP - Semtokha Fdr.	45.40	+	
		Unit- II	7.84	66kV BHP - Lobeyasa Fdr.	14.27	+	
		<b>Total</b>	<b>15.68</b>	220kV BHP - Tsirang Fdr.	-12.90	-	
	40MW BHP (L/S)	Unit- I	16.04	5MVA, 66/11kV TFR	0.71	+	
		Unit- II	15.41	30MVA ICT, 220/66kV			
<b>Total</b>	<b>31.45</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.35</b>				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	48.89	+	
		Unit-II	49.12	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>49.12</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
6	60MW KHP	Unit- I	15.32	132kV KHP - Nangkor Fdr- I	41.03	+	Unit-III Standby
		Unit-II	15.21	132kV KHP - Kilikhar Fdr- II	4.13	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	15.07	132kV Gelephu - Salakati Fdr.	16.25	+	
		-	-	132kV Motanga - Rangia Fdr.	15.98	+	
		-	-	220kV Tsirang - Jigmeling	35.49	+	
		<b>Total</b>	<b>45.60</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.14</b>		

Note: Load summary on October 31, 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	701.74	256.57	248.54	409.68	8.03
2	Eastern Grid	292.90	50.46	48.72	277.93	1.74
	<b>Total</b>	<b>994.64</b>	<b>307.03</b>	<b>297.26</b>	<b>687.61</b>	<b>9.77</b>

Note: Load Summary on October 31, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	239.86	240.43	281.60
2	Eastern Grid	24.19	39.34	62.24
	<b>National</b>	<b>264.05</b>	<b>279.77</b>	<b>343.84</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.
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