

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	November 6, 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	151.40	400kV THP - Siliguri Fdr- I	0.00		Unit II & V under shutdown. Unit-III at standby 400kV THP_SILI 1 line under antitheft charge.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	134.74	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	127.35	+	
		Unit- IV	139.93	400kV THP - Malbase Fdr- III	189.63	+	
		Unit- V	0.00	400kV Malbase - Siliguri	112.27	+	
		Unit- VI	170.43	-	-	-	
		<b>Total</b>	<b>461.76</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>10.04</b>		
2	720MW MHP	Unit-I	85.10	400kV MHP - Jigmeling Fdr - I	110.79	+	Unit II & Unit III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	109.23	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	138.30	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		<b>Total</b>	<b>223.40</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>3.38</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	40.21	+	Unit-I under shutdown
		Unit- II	76.89	220kV CHP - Birpara Fdr- II	40.07	+	
		Unit- III	73.84	220kV CHP - Malbase Fdr- III	97.16	+	
		Unit- IV	70.92	220kV CHP - Semtokha Fdr- IV	23.62	+	
		-	-	220kV Malbase - Birpara Fdr.	-7.85	-	
		-	-	66kV CHP - Chumdo Fdr.	12.48	+	
		-	-	66kV CHP - Gedu Fdr.	5.91	+	
		<b>Total</b>	<b>221.65</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.73</b>		
3	24MW BHP (U/S)	Unit- I	7.02	220kV BHP - Semtokha Fdr.	27.47	+	
		Unit- II	7.02	66kV BHP - Lobeysa Fdr.	17.12	+	
		<b>Total</b>	<b>14.04</b>	220kV BHP - Tsirang Fdr.	-3.29	-	
	40MW BHP (L/S)	Unit- I	14.32	5MVA, 66/11kV TFR	0.76	+	
		Unit- II	13.73	30MVA ICT, 220/66kV			
<b>Total</b>	<b>28.05</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.03</b>				
4	126MW DHPC	Unit-I	42.16	220kV DHPC - Tsirang Fdr.	41.92	+	Unit II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>42.16</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	31.55	+	Unit-I shutdown
		Unit-II	12.39	132kV KHP - Kilikhar Fdr- II	7.59	+	
		Unit- III	14.12	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	13.17	132kV Gelephu - Salakati Fdr.	1.60	+	
		-	-	132kV Motanga - Rangia Fdr.	15.53	+	
		-	-	220kV Tsirang - Jigmeling	36.53	+	
		<b>Total</b>	<b>39.68</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.14</b>		

Note: Load summary on November 06, 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	767.66	284.34	273.30	446.79	11.04
2	Eastern Grid	263.08	62.46	58.94	237.15	3.52
	<b>Total</b>	<b>1,030.74</b>	<b>346.80</b>	<b>332.24</b>	<b>683.94</b>	<b>14.56</b>

Note: Load Summary on November 06, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	262.49	262.49	281.60
2	Eastern Grid	53.69	61.02	62.24
	<b>National</b>	<b>316.18</b>	<b>323.51</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 7, 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	118.83	400kV THP - Siliguri Fdr- I	0.00		Unit-II & V under shutdown. Unit-III at standby. 400kV THP_SILI I under Anti-Theft charge.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	104.19	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	98.02	+	
		Unit- IV	139.53	400kV THP - Malbase Fdr- III	149.38	+	
		Unit- V	0.00	400kV Malbase - Siliguri	86.83	+	
		Unit- VI	100.43	-	-	-	
		<b>Total</b>	<b>358.79</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>7.20</b>		
2	720MW MHP	Unit-I	85.40	400kV MHP - Jigmeling Fdr - I	109.10	+	Unit II & Unit III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	108.40	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	138.60	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		<b>Total</b>	<b>224.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>6.50</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	31.32	+	CHP Unit-I under shutdownn.
		Unit- II	56.50	220kV CHP - Birpara Fdr- II	31.20	+	
		Unit- III	58.13	220kV CHP - Malbase Fdr- III	102.77	+	
		Unit- IV	59.28	220kV CHP - Semtokha Fdr- IV	-6.34	-	
		-	-	220kV Malbase - Birpara Fdr.	-27.80	-	
		-	-	66kV CHP - Chumdo Fdr.	7.13	+	
		-	-	66kV CHP - Gedu Fdr.	6.28	+	
		<b>Total</b>	<b>173.91</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.82</b>		
4	24MW BHP (U/S)	Unit- I	6.90	220kV BHP - Semtokha Fdr.	41.00	+	
		Unit- II	6.90	66kV BHP - Lobeysha Fdr.	13.75	+	
		<b>Total</b>	<b>13.80</b>	220kV BHP - Tsirang Fdr.	-13.21	-	
	40MW BHP (L/S)	Unit- I	14.11	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	13.59	30MVA ICT, 220/66kV			
<b>Total</b>	<b>27.70</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.42</b>				
5	126MW DHPC	Unit-I	43.35	220kV DHPC - Tsirang Fdr.	43.13	+	Unit-II Standby
		Unit-II	0.00	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>43.35</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	34.78	+	Unit-I shutdown
		Unit-II	12.42	132kV KHP - Kilikhar Fdr- II	3.51	+	
		Unit- III	14.12	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	12.26	132kV Gelephu - Salakati Fdr.	4.67	+	
		-	-	132kV Motanga - Rangia Fdr.	11.42	+	
		-	-	220kV Tsirang - Jigmeling	27.60	+	
		<b>Total</b>	<b>38.80</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.01</b>		

Note: Load summary on November 07, 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	617.55	266.19	258.37	323.76	7.82
2	Eastern Grid	262.80	56.81	50.30	233.59	6.51
	<b>Total</b>	<b>880.35</b>	<b>323.00</b>	<b>308.67</b>	<b>557.35</b>	<b>14.33</b>

Note: Load Summary on November 07, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	249.58	274.80	293.93
2	Eastern Grid	37.97	50.19	62.30
	<b>National</b>	<b>287.55</b>	<b>324.99</b>	<b>356.23</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.