

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	October 26, 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	170.70	400kV THP - Siliguri Fdr- I	137.49	+	Unit III & V under shutdown. 400kV THP_Sili IV line under maintenance.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	135.54	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	140.64	400kV THP - Malbase Fdr- III	198.85	+	
		Unit- V	0.00	400kV Malbase - Siliguri	114.18	+	
		Unit- VI	168.47	-	-	-	
		<b>Total</b>	<b>479.81</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>7.93</b>		
2	720MW MHP	Unit-I	81.00	400kV MHP - Jigmeling Fdr - I	136.70	+	Unit-III under shutdown.
		Unit-II	121.00	400kV MHP - Jigmeling Fdr - II	136.70	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	71.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		<b>Total</b>	<b>273.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.40</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	58.11	+	Unit-I under shutdown
		Unit- II	78.73	220kV CHP - Birpara Fdr- II	57.93	+	
		Unit- III	84.09	220kV CHP - Malbase Fdr- III	107.41	+	
		Unit- IV	84.50	220kV CHP - Semtokha Fdr- IV	5.62	+	
		-	-	220kV Malbase - Birpara Fdr.	12.57	-	
		-	-	66kV CHP - Chumdo Fdr.	8.49	+	
		-	-	66kV CHP - Gedu Fdr.	6.99	+	
		<b>Total</b>	<b>247.32</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.12</b>		
3	24MW BHP (U/S)	Unit- I	8.68	220kV BHP - Semtokha Fdr.	37.08	+	
		Unit- II	8.68	66kV BHP - Lobeysa Fdr.	16.96	+	
		<b>Total</b>	<b>17.36</b>	220kV BHP - Tsirang Fdr.	-3.12	-	
	40MW BHP (L/S)	Unit- I	17.36	5MVA, 66/11kV TFR	0.58	+	
		Unit- II	16.67	30MVA ICT, 220/66kV			
<b>Total</b>	<b>34.03</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.11</b>				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	52.96	+	Unit I Standby
		Unit-II	53.20	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>53.20</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>		
5	60MW KHP	Unit- I	14.56	132kV KHP - Nangkhor Fdr- I	47.70	+	
		Unit-II	14.03	132kV KHP - Kilikhar Fdr- II	9.32	+	
		Unit- III	15.11	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	13.95	132kV Gelephu - Salakati Fdr.	14.47	+	
		-	-	132kV Motanga - Rangia Fdr.	28.42	+	
		-	-	220kV Tsirang - Jigmeling	46.72	+	
		<b>Total</b>	<b>57.65</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.13</b>		

Note: Load summary on October 26, 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	831.72	269.18	260.00	515.82	9.18
2	Eastern Grid	330.65	61.08	61.35	316.29	-0.27
	<b>Total</b>	<b>1,162.37</b>	<b>330.26</b>	<b>321.35</b>	<b>832.11</b>	<b>8.91</b>

Note: Load Summary on October 26, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	281.60	281.60	281.60
2	Eastern Grid	52.43	55.05	62.24
	<b>National</b>	<b>334.03</b>	<b>336.65</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 27, 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	146.38	400kV THP - Siliguri Fdr- I	132.00	+	Unit-II standby. Unit III & V under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	130.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	147.50	400kV THP - Malbase Fdr- III	168.00	+	
		Unit- V	0.00	400kV Malbase - Siliguri	111.00	+	
		Unit- VI	147.00	-	-	-	
		<b>Total</b>	<b>440.88</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>10.88</b>		
2	720MW MHP	Unit-I	84.48	400kV MHP - Jigmeling Fdr - I	134.67	+	Unit-III & IV under shutdown.
		Unit-II	113.80	400kV MHP - Jigmeling Fdr - II	134.72	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	72.99	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>271.27</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.88</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	50.50	+	CHP Unit-I under shutdown.
		Unit- II	72.00	220kV CHP - Birpara Fdr- II	50.40	+	
		Unit- III	71.00	220kV CHP - Malbase Fdr- III	120.20	+	
		Unit- IV	75.00	220kV CHP - Semtokha Fdr- IV	-16.60	-	
		-	-	220kV Malbase - Birpara Fdr.	-9.00	-	
		-	-	66kV CHP - Chumdo Fdr.	5.80	+	
		-	-	66kV CHP - Gedu Fdr.	5.60	+	
		-	-	3x3MVA, 66/11kV TFR	0.85	+	
		<b>Total</b>	<b>218.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.25</b>		
4	24MW BHP (U/S)	Unit- I	9.00	220kV BHP - Semtokha Fdr.	45.74	+	
		Unit- II	8.70	66kV BHP - Lobeyasa Fdr.	13.17	+	
		<b>Total</b>	<b>17.70</b>	220kV BHP - Tsirang Fdr.	-12.35	-	
	40MW BHP (L/S)	Unit- I	16.60	5MVA, 66/11kV TFR	2.89	+	
		Unit- II	17.50	30MVA ICT, 220/66kV			
<b>Total</b>	<b>34.10</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.35</b>				
5	126MW DHPC	Unit-I	26.50	220kV DHPC - Tsirang Fdr.	52.92	+	
		Unit-II	26.40	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>52.90</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.02</b>		
6	60MW KHP	Unit- I	14.04	132kV KHP - Nangkor Fdr- I	50.55	+	
		Unit-II	14.09	132kV KHP - Kilikhar Fdr- II	5.73	+	
		Unit- III	15.11	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	14.00	132kV Gelephu - Salakati Fdr.	19.20	+	
		-	-	132kV Motanga - Rangia Fdr.	25.84	+	
		-	-	220kV Tsirang - Jigmeling	35.75	+	
		<b>Total</b>	<b>57.24</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.66</b>		

Note: Load summary on October 27, 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	763.58	262.93	248.47	464.90	14.46
2	Eastern Grid	328.51	49.83	47.29	314.43	2.54
	<b>Total</b>	<b>1,092.09</b>	<b>312.76</b>	<b>295.76</b>	<b>779.33</b>	<b>17.00</b>

Note: Load Summary on October 27, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	261.91	280.58	281.60
2	Eastern Grid	41.27	53.18	62.24
	<b>National</b>	<b>303.18</b>	<b>333.76</b>	<b>343.84</b>

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