

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date: **October 16, 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	0.00	400kV THP - Siliguri Fdr- I	201.86	+	Unit-I & III under shutdown 400kV THP_MAL line under maintenance.
		Unit- II	128.58	400kV THP - Siliguri Fdr- II	200.70	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	197.34	+	
		Unit- IV	169.83	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	169.33	400kV Malbase - Siliguri	-47.86	-	
		Unit- VI	140.48	-	-	-	
		<b>Total</b>	<b>608.22</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>8.32</b>		
2	720MW MHP	Unit-I	80.50	400kV MHP - Jigmeling Fdr - I	203.33	+	Unit-III under shutdown
		Unit-II	162.20	400kV MHP - Jigmeling Fdr - II	199.58	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	161.20	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		<b>Total</b>	<b>403.90</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.99</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	64.30	+	Unit-I under shutdown
		Unit- II	91.07	220kV CHP - Birpara Fdr- II	64.11	+	
		Unit- III	91.81	220kV CHP - Malbase Fdr- III	130.08	+	
		Unit- IV	91.52	220kV CHP - Semtokha Fdr- IV	-0.08	-	
		-	-	220kV Malbase - Birpara Fdr.	6.84	+	
		-	-	66kV CHP - Chumdo Fdr.	8.12	+	
		-	-	66kV CHP - Gedu Fdr.	7.94	+	
		-	-	3x3MVA, 66/11kV TFR	1.48	+	
<b>Total</b>	<b>274.40</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-1.55</b>				
3	24MW BHP (U/S)	Unit- I	10.93	220kV BHP - Semtokha Fdr.	45.34	+	
		Unit- II	10.93	66kV BHP - Lobeyasa Fdr.	20.06	+	
		<b>Total</b>	<b>21.86</b>	220kV BHP - Tsirang Fdr.	-3.05	-	
	40MW BHP (L/S)	Unit- I	20.95	5MVA, 66/11kV TFR	0.66	+	
		Unit- II	20.14	30MVA ICT, 220/66kV			
<b>Total</b>	<b>41.09</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.06</b>				
4	126MW DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	66.06	+	
		Unit-II	36.17	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>66.46</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.40</b>		
5	60MW KHP	Unit- I	14.98	132kV KHP - Nangkor Fdr- I	52.62	+	
		Unit-II	15.10	132kV KHP - Kilikhar Fdr- II	8.81	+	
		Unit- III	16.18	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.01	132kV Gelephu - Salakati Fdr.	24.55	+	
		-	-	132kV Motanga - Rangia Fdr.	44.03	+	
		-	-	220kV Tsirang - Jigmeling	60.21	+	
		<b>Total</b>	<b>62.27</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.34</b>		

**Note: Load summary on October 16, 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	1,012.03	264.53	257.42	687.29	7.11
2	Eastern Grid	466.17	54.89	53.56	471.49	1.33
	<b>Total</b>	<b>1,478.20</b>	<b>319.42</b>	<b>310.98</b>	<b>1,158.78</b>	<b>8.44</b>

**Note: Load Summary on October 16, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	254.25	254.25	281.60
2	Eastern Grid	44.62	47.01	62.24
	<b>National</b>	<b>298.87</b>	<b>301.26</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 17, 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	0.00	400kV THP - Siliguri Fdr- I	189.00	+	Unit-I & III under shutdown 400kV THP_MAL line under maintenance.
		Unit- II	100.00	400kV THP - Siliguri Fdr- II	187.00	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	181.00	+	
		Unit- IV	185.00	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	100.00	400kV Malbase - Siliguri	-23.06	-	
		Unit- VI	180.00	-	-	-	
		<b>Total</b>	<b>565.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>8.00</b>		
2	720MW MHP	Unit-I	80.50	400kV MHP - Jigmeling Fdr - I	225.00	+	Unit- III under shutdown
		Unit-II	185.00	400kV MHP - Jigmeling Fdr - II	226.00	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	186.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>451.50</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.50</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	68.00	+	CHP Unit-I under shutdownn.
		Unit- II	92.00	220kV CHP - Birpara Fdr- II	68.00	+	
		Unit- III	91.53	220kV CHP - Malbase Fdr- III	158.00	+	
		Unit- IV	91.33	220kV CHP - Semtokha Fdr- IV	-32.00	-	
		-	-	220kV Malbase - Birpara Fdr.	-7.07	-	
		-	-	66kV CHP - Chumdo Fdr.	3.10	+	
		-	-	66kV CHP - Gedu Fdr.	8.30	+	
		<b>Total</b>	<b>274.86</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.59</b>		
4	24MW BHP (U/S)	Unit- I	11.30	220kV BHP - Semtokha Fdr.	59.53	+	
		Unit- II	11.20	66kV BHP - Lobeyasa Fdr.	16.65	+	
		<b>Total</b>	<b>22.50</b>	220kV BHP - Tsirang Fdr.	-14.86	-	
	40MW BHP (L/S)	Unit- I	19.90	5MVA, 66/11kV TFR	0.92	+	
		Unit- II	20.50	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>40.40</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.66</b>		
5	126MW DHPC	Unit-I	30.20	220kV DHPC - Tsirang Fdr.	64.96	+	
		Unit-II	35.20	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>65.40</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.44</b>		
6	60MW KHP	Unit- I	15.00	132kV KHP - Nangkor Fdr- I	54.82	+	
		Unit-II	15.00	132kV KHP - Kilikhar Fdr- II	4.37	+	
		Unit- III	15.00	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	15.00	132kV Gelephu - Salakati Fdr.	30.38	+	
		-	-	132kV Motanga - Rangia Fdr.	31.98	+	
		-	-	220kV Tsirang - Jigmeling	48.66	+	
		<b>Total</b>	<b>60.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.31</b>		

**Note: Load summary on October 17, 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	968.16	256.63	246.94	662.87	9.69
2	Eastern Grid	511.50	46.80	45.99	513.36	0.81
	<b>Total</b>	<b>1,479.66</b>	<b>303.43</b>	<b>292.93</b>	<b>1,176.23</b>	<b>10.50</b>

**Note: Load Summary on October 17, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	230.35	252.17	281.60
2	Eastern Grid	31.85	52.41	62.24
	<b>National</b>	<b>262.20</b>	<b>304.58</b>	<b>343.84</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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