

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date: August 27, 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	187.21	400kV THP - Siliguri Fdr- I	208.92	+	
		Unit- II	187.84	400kV THP - Siliguri Fdr- II	206.47	+	
		Unit- III	187.55	400kV THP - Siliguri Fdr- IV	200.36	+	
		Unit- IV	186.71	400kV THP - Malbase Fdr- III	308.03	+	
		Unit- V	0.00	400kV Malbase - Siliguri	170.64	+	
		Unit- VI	185.69	-	-	-	
		<b>Total</b>	<b>935.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>11.22</b>		
2	720MW MHP	Unit-I	190.54	400kV MHP - Jigmeling Fdr - I	192.60	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	188.90	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	191.70	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		<b>Total</b>	<b>382.24</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.74</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	76.21	+	Unit-I tripped since 23/08/2019.
		Unit- II	90.70	220kV CHP - Birpara Fdr- II	76.13	+	
		Unit- III	91.71	220kV CHP - Malbase Fdr- III	97.12	+	
		Unit- IV	91.91	220kV CHP - Semtokha Fdr- IV	9.80	+	
		-	-	220kV Malbase - Birpara Fdr.	51.58	+	
		-	-	66kV CHP - Chumdo Fdr.	6.18	+	
		-	-	66kV CHP - Gedu Fdr.	6.72	+	
		-	-	3x3MVA, 66/11kV TFR	1.21	+	
<b>Total</b>	<b>274.32</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.95</b>				
3	24MW BHP (U/S)	Unit- I	7.82	220kV BHP - Semtokha Fdr.	22.66	+	
		Unit- II	7.82	66kV BHP - Lobeyasa Fdr.	15.50	+	
		<b>Total</b>	<b>15.64</b>	220kV BHP - Tsirang Fdr.	7.40	+	
	40MW BHP (L/S)	Unit- I	15.56	5MVA, 66/11kV TFR	0.69	+	
		Unit- II	15.01	30MVA ICT, 220/66kV			
<b>Total</b>	<b>30.57</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.04</b>				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	62.95	+	Unit-I under shutdown.
		Unit-II	63.27	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>63.27</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.32</b>		
5	60MW KHP	Unit- I	16.57	132kV KHP - Nangkhon Fdr- I	57.23	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.66	132kV KHP - Kilikhar Fdr- II	8.56	+	
		Unit- III	16.66	5MVA, 132/11kV TFR	0.70	+	
		Unit- IV	16.62	132kV Gelephu - Salakati Fdr.	25.94	+	
		-	-	132kV Motanga - Rangia Fdr.	43.15	+	
		-	-	220kV Tsirang - Jigmeling	66.77	+	
		<b>Total</b>	<b>66.51</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.02</b>		

Note: Load summary on August 27, 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	1,318.80	261.72	249.27	990.31	12.45
2	Eastern Grid	448.75	64.93	64.17	450.59	0.76
	<b>Total</b>	<b>1,767.55</b>	<b>326.65</b>	<b>313.44</b>	<b>1,440.90</b>	<b>13.21</b>

Note: Load Summary on August 27, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	246.70	246.70	259.44
2	Eastern Grid	51.29	51.29	55.98
	<b>National</b>	<b>297.99</b>	<b>297.99</b>	<b>315.42</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

<b>Date:</b>	<b>August 28, 2019</b>
<b>Hours:</b>	<b>09:00 Hours</b>

<b>Date</b>	<b>Time</b>	<b>Load(MW)</b>
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	186.24	400kV THP - Siliguri Fdr- I	222.80	+	
		Unit- II	187.93	400kV THP - Siliguri Fdr- II	220.27	+	
		Unit- III	187.95	400kV THP - Siliguri Fdr- IV	216.06	+	
		Unit- IV	140.70	400kV THP - Malbase Fdr- III	291.57	+	
		Unit- V	80.03	400kV Malbase - Siliguri	194.66	+	
		Unit- VI	186.42	-	-	-	
		<b>Total</b>	<b>969.27</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>18.57</b>		
2	720MW MHP	Unit-I	190.85	400kV MHP - Jigmeling Fdr - I	192.00	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	188.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	191.60	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>382.45</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.35</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	79.26	+	CHP Unit-I under breakdown.
		Unit- II	90.49	220kV CHP - Birpara Fdr- II	78.95	+	
		Unit- III	90.92	220kV CHP - Malbase Fdr- III	117.50	+	
		Unit- IV	91.38	220kV CHP - Semtokha Fdr- IV	-13.12	-	
		-	-	220kV Malbase - Birpara Fdr.	39.84	+	
		-	-	66kV CHP - Chumdo Fdr.	2.31	+	
		-	-	66kV CHP - Gedu Fdr.	6.97	+	
		<b>Total</b>	<b>272.79</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.25</b>		
4	24MW BHP (U/S)	Unit- I	7.75	220kV BHP - Semtokha Fdr.	33.72	+	
		Unit- II	7.75	66kV BHP - Lobeyasa Fdr.	12.76	+	
		<b>Total</b>	<b>15.50</b>	220kV BHP - Tsirang Fdr.	-1.33	-	
	40MW BHP (L/S)	Unit- I	15.56	5MVA, 66/11kV TFR	0.37	+	
		Unit- II	14.58	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>30.14</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.12</b>		
5	126MW DHPC	Unit-I	30.31	220kV DHPC - Tsirang Fdr.	63.05	+	
		Unit-II	33.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>63.45</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.40</b>		
6	60MW KHP	Unit- I	16.39	132kV KHP - Nangkor Fdr- I	61.76	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.68	132kV KHP - Kilikhar Fdr- II	3.46	+	
		Unit- III	16.43	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.63	132kV Gelephu - Salakati Fdr.	31.05	+	
		-	-	132kV Motanga - Rangia Fdr.	43.15	+	
		-	-	220kV Tsirang - Jigmeling	60.11	+	
		<b>Total</b>	<b>66.13</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.51</b>		

**Note: Load summary on August 28, 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	1,351.15	239.20	219.86	1,051.84	19.34
2	Eastern Grid	448.58	54.39	51.53	454.30	2.86
	<b>Total</b>	<b>1,799.73</b>	<b>293.59</b>	<b>271.39</b>	<b>1,506.14</b>	<b>22.20</b>

**Note: Load Summary on August 28, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	220.87	230.95	259.44
2	Eastern Grid	41.19	50.33	55.98
	<b>National</b>	<b>262.06</b>	<b>281.28</b>	<b>315.42</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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