

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date: August 15, 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	187.34	400kV THP - Siliguri Fdr- I	263.12	+	
		Unit- II	185.20	400kV THP - Siliguri Fdr- II	260.80	+	
		Unit- III	187.64	400kV THP - Siliguri Fdr- IV	254.25	+	
		Unit- IV	188.03	400kV THP - Malbase Fdr- III	323.07	+	
		Unit- V	187.19	400kV Malbase - Siliguri	233.39	+	
		Unit- VI	185.72	-	-	-	
		<b>Total</b>	<b>1,121.12</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>19.88</b>		
2	720MW MHP	Unit-I	181.13	400kV MHP - Jigmeling Fdr - I	183.10	+	Unit-II under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	179.50	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	183.14	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		<b>Total</b>	<b>364.27</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.67</b>		
2	336MW CHP	Unit- I	91.83	220kV CHP - Birpara Fdr- I	115.86	+	
		Unit- II	91.54	220kV CHP - Birpara Fdr- II	115.98	+	
		Unit- III	91.73	220kV CHP - Malbase Fdr- III	149.32	+	
		Unit- IV	91.88	220kV CHP - Semtokha Fdr- IV	-28.50	-	
		-	-	220kV Malbase - Birpara Fdr.	76.58	+	
		-	-	66kV CHP - Chumdo Fdr.	3.77	+	
		-	-	66kV CHP - Gedu Fdr.	7.68	+	
		<b>Total</b>	<b>366.98</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.68</b>		
3	24MW BHP (U/S)	Unit- I	11.79	220kV BHP - Semtokha Fdr.	56.51	+	
		Unit- II	11.79	66kV BHP - Lobeyasa Fdr.	17.33	+	
		<b>Total</b>	<b>23.58</b>	220kV BHP - Tsirang Fdr.	-9.66	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.71	+	
		Unit- II	20.77	30MVA ICT, 220/66kV			
<b>Total</b>	<b>41.07</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.24</b>				
4	126MW DHPC	Unit-I	51.36	220kV DHPC - Tsirang Fdr.	103.04	+	
		Unit-II	52.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>103.52</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.48</b>		
5	60MW KHP	Unit- I	16.32	132kV KHP - Nangkor Fdr- I	56.37	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.45	132kV KHP - Kilikhar Fdr- II	8.81	+	
		Unit- III	16.53	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	49.05	+	
		-	-	132kV Motanga - Rangia Fdr.	44.04	+	
		-	-	220kV Tsirang - Jigmeling	90.98	+	
		<b>Total</b>	<b>65.80</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.02</b>		

Note: Load summary on August 15, 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	1,656.27	245.31	223.51	1,319.98	21.80
2	Eastern Grid	430.07	65.36	63.67	455.69	1.69
	<b>Total</b>	<b>2,086.34</b>	<b>310.67</b>	<b>287.18</b>	<b>1,775.67</b>	<b>23.49</b>

Note: Load Summary on August 15, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	237.92	242.30	259.44
2	Eastern Grid	39.74	48.12	55.98
	<b>National</b>	<b>277.66</b>	<b>290.42</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

Date: August 16, 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	187.46	400kV THP - Siliguri Fdr- I	354.95	+	400kV THP-Siliguri Fdr IV under shutdown
		Unit- II	187.24	400kV THP - Siliguri Fdr- II	352.36	+	
		Unit- III	187.56	400kV THP - Siliguri Fdr- IV	0.00	+	
		Unit- IV	186.90	400kV THP - Malbase Fdr- III	397.91	+	
		Unit- V	187.02	400kV Malbase - Siliguri	318.53	+	
		Unit- VI	186.31	-	-	-	
		<b>Total</b>	<b>1,122.49</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>17.27</b>		
2	720MW MHP	Unit-I	181.60	400kV MHP - Jigmeling Fdr - I	190.67	+	Unit-II under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	186.43	+	
		Unit-III	16.30	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	181.90	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>379.80</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.70</b>		
3	336MW CHP	Unit- I	91.36	220kV CHP - Birpara Fdr- I	121.13	+	
		Unit- II	91.31	220kV CHP - Birpara Fdr- II	121.10	+	
		Unit- III	91.45	220kV CHP - Malbase Fdr- III	162.19	+	
		Unit- IV	91.63	220kV CHP - Semtokha Fdr- IV	-48.56	-	
		-	-	220kV Malbase - Birpara Fdr.	73.57	+	
		-	-	66kV CHP - Chumdo Fdr.	0.51	+	
		-	-	66kV CHP - Gedu Fdr.	8.26	+	
		<b>Total</b>	<b>365.75</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.45</b>		
4	24MW BHP (U/S)	Unit- I	11.78	220kV BHP - Semtokha Fdr.	66.89	+	
		Unit- II	11.78	66kV BHP - Lobeyasa Fdr.	15.85	+	
		<b>Total</b>	<b>23.56</b>	220kV BHP - Tsirang Fdr.	-17.94	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.35	+	
		Unit- II	20.74	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>41.04</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.55</b>		
5	126MW DHPC	Unit-I	54.34	220kV DHPC - Tsirang Fdr.	107.98	+	
		Unit-II	54.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>108.48</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.50</b>		
6	60MW KHP	Unit- I	16.52	132kV KHP - Nangkor Fdr- I	61.59	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.55	132kV KHP - Kilikhar Fdr- II	3.81	+	
		Unit- III	16.55	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.32	132kV Gelephu - Salakati Fdr.	51.06	+	
		-	-	132kV Motanga - Rangia Fdr.	52.54	+	
		-	-	220kV Tsirang - Jigmeling	86.50	+	
		<b>Total</b>	<b>65.94</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.04</b>		

Note: Load summary on August 16, 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	1,661.32	233.18	215.51	1,341.64	17.67
2	Eastern Grid	445.74	51.54	48.80	480.70	2.74
	<b>Total</b>	<b>2,107.06</b>	<b>284.72</b>	<b>264.31</b>	<b>1,822.34</b>	<b>20.41</b>

Note: Load Summary on August 16, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	230.13	259.44	259.44
2	Eastern Grid	37.00	52.64	55.98
	<b>National</b>	<b>267.13</b>	<b>312.08</b>	<b>315.42</b>

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