

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	January 5, 2020
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	90.34	400kV THP - Siliguri Fdr- I	57.40	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	56.52	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	138.27	+	
		Unit- V	169.05	400kV Malbase - Siliguri	36.14	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>259.39</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>7.20</b>		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit- I & III under maintenance. Unit-IV under standby 400kV MHP-JLG I & 400kV MHP-JLG II under shutdown. 400kV MHP_JIG Fdr-IV at Standby.
		Unit-II	129.77	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	128.00	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>129.77</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.77</b>		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit-I & II under shutdown. 220kV CHP-Bir I Standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-0.85	+	
		Unit- III	64.67	220kV CHP - Malbase Fdr- III	40.01	+	
		Unit- IV	64.17	220kV CHP - Sementokha Fdr- IV	62.19	+	
		-	-	220kV Malbase - Birpara Fdr.	-31.19	-	
		-	-	66kV CHP - Chumdo Fdr.	17.60	+	
		-	-	66kV CHP - Gedu Fdr.	2.19	+	
<b>Total</b>	<b>128.84</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>5.65</b>				
3	24MW BHP (U/S)	Unit- I	7.26	220kV BHP - Sementokha Fdr.	8.11	+	U/S Unit-II under maintenace. L/S Unit-I at standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	17.63	+	
		<b>Total</b>	<b>7.26</b>	220kV BHP - Tsirang Fdr.	-5.95	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	1.22	+	
		Unit- II	13.79	30MVA ICT, 220/66kV			
<b>Total</b>	<b>13.79</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.04</b>				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	22.93	+	Unit I at Standby.
		Unit-II	23.15	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>23.15</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.22</b>		
5	60MW KHP	Unit- I	16.00	132kV KHP - Nangkhon Fdr- I	14.70	+	Unit-III & IV Annual Maintenance.
		Unit-II	15.00	132kV KHP - Kilikhar Fdr- II	14.33	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.23	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-11.80	-	
		-	-	132kV Motanga - Rangia Fdr.	-1.86	-	
		-	-	220kV Tsirang - Jigmeling	11.30	+	
		<b>Total</b>	<b>31.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.74</b>		

**Note: Load summary on January 05, 2020 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	432.43	303.11	290.00	118.02	13.11
2	Eastern Grid	160.77	57.73	54.22	114.34	3.51
	<b>Total</b>	593.20	360.84	344.22	232.36	16.62

**Note: Load Summary on January 05, 2018 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	*	*	NA
2	Eastern Grid	*	*	NA
	<b>National</b>	<b>#VALUE!</b>	<b>#VALUE!</b>	<b>#VALUE!</b>

**NOTES: Eastern Data Collected from Site**

- 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:	January 6, 2020
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	89.89	400kV THP - Siliguri Fdr- I	24.27	+	Unit- III & IV at standby. Unit- II & VI under shutdown. 400kV THP_SILL-IV under shutdown.
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	23.69	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	108.16	+	
		Unit- V	69.86	400kV Malbase - Siliguri	4.45	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>159.75</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>3.63</b>		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & I under maintenance. Unit-IV standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG IV standby.
		Unit-II	108.71	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	102.54	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>108.71</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>6.17</b>		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	0.00		Unit-I & II under shutdownn. 220kV CHP-BIR I standby
		Unit- II	0.00	220kV CHP - Birpara Fdr- II	-7.09	-	
		Unit- III	40.00	220kV CHP - Malbase Fdr- III	22.47	+	
		Unit- IV	40.00	220kV CHP - Sementokha Fdr- IV	45.73	+	
		-	-	220kV Malbase - Birpara Fdr.	-28.25	-	
		-	-	66kV CHP - Chumdo Fdr.	13.06	+	
		-	-	66kV CHP - Gedu Fdr.	3.39	+	
<b>Total</b>	<b>80.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.95</b>				
4	24MW BHP (U/S)	Unit- I	6.79	220kV BHP - Sementokha Fdr.	11.30	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	15.50	+	
		<b>Total</b>	<b>6.79</b>	220kV BHP - Tsirang Fdr.	-6.55	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	14.02	30MVA ICT, 220/66kV			
<b>Total</b>	<b>14.02</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.11</b>				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.95	+	Unit-I at Standby
		Unit-II	22.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>22.18</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
6	60MW KHP	Unit- I	12.66	132kV KHP - Nangkhor Fdr- I	19.13	+	Unit-IV under shutdown. Unit-III maintenance
		Unit-II	11.07	132kV KHP - Kilikhar Fdr- II	3.33	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.26	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-8.40	-	
		-	-	132kV Motanga - Rangia Fdr.	6.11	+	
		-	-	220kV Tsirang - Jigmeling	13.10	+	
		<b>Total</b>	<b>23.73</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.01</b>		

**Note: Load summary on January 06, 2020 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	282.74	252.57	247.87	17.07	4.70
2	Eastern Grid	132.44	45.29	38.11	100.25	7.18
	<b>Total</b>	415.18	297.86	285.98	117.32	11.88

**Note: Load Summary on January 06, 2018 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	*	*	N.A
2	Eastern Grid	*	*	N.A
	<b>National</b>	<b>#VALUE!</b>	<b>#VALUE!</b>	<b>#VALUE!</b>

**NOTES:Eastern Data Collected from Site**

- 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.