

**LOAD-GENERATION BALANCE REPORT**

Maximum Load/Demand till Date

Date:	January 3, 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	79.55	400kV THP - Siliguri Fdr- I	55.81	+	Unit-III & IV at standby. Unit-II & VI under shutdown. 400kV THP_SILI-IV shutdown
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	55.46	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	140.08	+	
		Unit- V	179.64	400kV Malbase - Siliguri	34.24	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>259.19</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>7.84</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	106.81	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	98.87	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>106.81</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>7.94</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	-2.32	-	
		Unit- III	61.90	220kV CHP - Malbase Fdr- III	34.53	+	
		Unit- IV	61.90	220kV CHP - Sementokha Fdr- IV	66.10	+	
		-	-	220kV Malbase - Birpara Fdr.	-30.10	-	
		-	-	66kV CHP - Chumdo Fdr.	17.22	+	
		-	-	66kV CHP - Gedu Fdr.	3.93	+	
		-	-	3x3MVA, 66/11kV TFR	2.04	+	
		<b>Total</b>	<b>123.80</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.30</b>		
		3	24MW BHP (U/S)	Unit- I	6.96	220kV BHP - Sementokha Fdr.	
Unit- II	0.00			66kV BHP - Lobeysa Fdr.	17.62	+	
<b>Total</b>	<b>6.96</b>			220kV BHP - Tsirang Fdr.	-0.50	-	
40MW BHP (L/S)	Unit- I		0.00	5MVA, 66/11kV TFR	0.91	+	
	Unit- II		14.23	30MVA ICT, 220/66kV			
<b>Total</b>	<b>14.23</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.09</b>				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	21.64	+	Unit I at Standby.
		Unit-II	21.87	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>21.87</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
		5	60MW KHP	Unit- I	16.14	132kV KHP - Nangkhor Fdr- I	
Unit-II	0.00			132kV KHP - Kilikhar Fdr- II	10.47	+	
Unit- III	0.00			5MVA, 132/11kV TFR	0.40	+	
Unit- IV	0.00			132kV Gelephu - Salakati Fdr.	-14.60	-	
-	-			132kV Motanga - Rangia Fdr.	-6.11	-	
-	-			220kV Tsirang - Jigmeling	18.00	+	
<b>Total</b>	<b>16.14</b>			<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.04</b>		

**Note: Load summary on January 03, 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	426.05	294.96	284.68	113.09	10.28
2	Eastern Grid	122.95	62.79	53.81	78.16	8.98
	<b>Total</b>	549.00	357.75	338.49	191.25	19.26

**Note: Load Summary on January 03, 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 3, 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	80.04	400kV THP - Siliguri Fdr- I	25.69	+	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	24.72	+	
		Unit- III	0.00	400kV THP - Siliguri Fdr- IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Fdr- III	113.87	+	
		Unit- V	89.96	400kV Malbase - Siliguri	5.87	+	
		Unit- VI	0.00	-	-	-	
		<b>Total</b>	<b>170.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>5.72</b>		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		Unit-III & IV under maintenance. Unit-I standby. 400kV MHP-JLG I & II under shutdown. 400kV MHP-JLG IV standby.
		Unit-II	118.00	400kV MHP - Jigmeling Fdr - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	116.00	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		<b>Total</b>	<b>118.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>2.00</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	-10.38	-	
		Unit- III	41.00	220kV CHP - Malbase Fdr- III	30.88	+	
		Unit- IV	41.00	220kV CHP - Sementokha Fdr- IV	41.94	+	
		-	-	220kV Malbase - Birpara Fdr.	-39.98	-	
		-	-	66kV CHP - Chumdo Fdr.	13.00	+	
		-	-	66kV CHP - Gedu Fdr.	3.87	+	
		-	-	3x3MVA, 66/11kV TFR	1.40	+	
<b>Total</b>	<b>82.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>1.29</b>				
4	24MW BHP (U/S)	Unit- I	7.36	220kV BHP - Sementokha Fdr.	12.44	+	U/S Unit-II under maintenace. L/S Unit-I standby.
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	14.94	+	
		<b>Total</b>	<b>7.36</b>	220kV BHP - Tsirang Fdr.	-5.68	-	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.78	+	
		Unit- II	15.05	30MVA ICT, 220/66kV			
<b>Total</b>	<b>15.05</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>-0.07</b>				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	29.95	+	Unit-I at Standby
		Unit-II	30.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		<b>Total</b>	<b>30.18</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.23</b>		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Fdr- I	6.42	+	Unit-IV under shutdown. Unit-III maintenance Unit-I Standby
		Unit-II	16.00	132kV KHP - Kilikhar Fdr- II	8.61	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.42	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	-9.80	-	
		-	-	132kV Motanga - Rangia Fdr.	-4.84	-	
		-	-	220kV Tsirang - Jigmeling	21.67	+	
		<b>Total</b>	<b>16.00</b>	<b>Error at Station/Auxiliary Consumption/Losses</b>	<b>0.55</b>		

**Note: Load summary on January 03, 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	304.59	277.00	269.83	5.92	7.17
2	Eastern Grid	134.00	54.31	51.76	101.36	2.55
	<b>Total</b>	438.59	331.31	321.59	107.28	9.72

**Note: Load Summary on January 03, 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.
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