

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 18, 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	187.49	400kV THP - Siliguri Fdr- I	259.00	+	
		Unit- II	187.36	400kV THP - Siliguri Fdr- II	259.00	+	
		Unit- III	187.00	400kV THP - Siliguri Fdr- IV	256.00	+	
		Unit- IV	187.12	400kV THP - Malbase Fdr- III	335.00	+	
		Unit- V	187.27	400kV Malbase - Siliguri	220.00	+	
		Unit- VI	187.00	-	-	-	
		Total	1,123.24	Error at Station/Auxiliary Consumption/Losses	14.24		
2	720MW MHP	Unit-I	184.30	400kV MHP - Jigmeling Fdr - I	0.00		MHEP Unit II tripped at 11:28Hrs BST.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	182.00		
		Unit-III		400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV		400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	184.30	Error at Station/Auxiliary Consumption/Losses	2.30		
2	336MW CHP	Unit- I	92.00	220kV CHP - Birpara Fdr- I	110.40	+	
		Unit- II	92.00	220kV CHP - Birpara Fdr- II	110.20	+	
		Unit- III	92.00	220kV CHP - Malbase Fdr- III	150.30	+	
		Unit- IV	92.00	220kV CHP - Semtokha Fdr- IV	-15.50	-	
		-	-	220kV Malbase - Birpara Fdr.	79.00	+	
		-	-	66kV CHP - Chumdo Fdr.	3.00	+	
		-	-	66kV CHP - Gedu Fdr.	7.60	+	
		-	-	3x3MVA, 66/11kV TFR	0.90	+	
		Total	368.00	Error at Station/Auxiliary Consumption/Losses	1.10		
3	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	46.22	+	
		Unit- II	11.60	66kV BHP - Lobeyasa Fdr.	17.53	+	
		Total	23.40	220kV BHP - Tsirang Fdr.	-7.80	-	
	40MW BHP (L/S)	Unit- I	20.70	5MVA, 66/11kV TFR	0.98	+	
		Unit- II	20.80	30MVA ICT, 220/66kV			
		Total	41.50	Error at Station/Auxiliary Consumption/Losses	7.97		
4	126MW DHPC	Unit-I	46.09	220kV DHPC - Tsirang Fdr.	74.08	+	
		Unit-II	27.99	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	74.08	Error at Station/Auxiliary Consumption/Losses	0.00		
5	60MW KHP	Unit- I	16.49	132kV KHP - Nangkhor Fdr- I	58.13	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.47	132kV KHP - Kilikhar Fdr- II	7.56	+	
		Unit- III	16.60	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.48	132kV Gelephu - Salakati Fdr.	36.79	+	
		-	-	132kV Motanga - Rangia Fdr.	52.66	+	
		-	-	220kV Tsirang - Jigmeling	83.54	+	
		Total	66.04	Error at Station/Auxiliary Consumption/Losses	-0.05		

Note: Load summary on July 18, 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	1,630.22	253.08	229.77	1,293.60	23.31
2	Eastern Grid	250.34	62.43	60.18	271.45	2.25
	Total	1,880.56	315.51	289.95	1,565.05	25.56

Note: Load Summary on July 18, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	245.81	247.01	280.97
2	Eastern Grid	33.78	39.26	57.66
	National	279.59	286.27	338.63

NOTES: Western generation and feeder load fetched from sites.

- 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:	July 19, 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	187.00	400kV THP - Siliguri Fdr- I	274.00	+	
		Unit- II	187.00	400kV THP - Siliguri Fdr- II	273.00	+	
		Unit- III	187.00	400kV THP - Siliguri Fdr- IV	293.00	+	
		Unit- IV	187.22	400kV THP - Malbase Fdr- III	303.40	+	
		Unit- V	187.32	400kV Malbase - Siliguri	263.00	+	
		Unit- VI	187.36	-	-	-	
		Total	1,122.90	Error at Station/Auxiliary Consumption/Losses	-20.50		
2	720MW MHP	Unit-I	186.30	400kV MHP - Jigmeling Fdr - I	184.36	+	
		Unit-II	182.20	400kV MHP - Jigmeling Fdr - II	184.12	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III			
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	368.50	Error at Station/Auxiliary Consumption/Losses	0.02		
3	336MW CHP	Unit- I	92.00	220kV CHP - Birpara Fdr- I	109.10	+	
		Unit- II	92.00	220kV CHP - Birpara Fdr- II	108.90	+	
		Unit- III	92.00	220kV CHP - Malbase Fdr- III	174.10	+	
		Unit- IV	92.00	220kV CHP - Semtokha Fdr- IV	-38.10	-	
		-	-	220kV Malbase - Birpara Fdr.	43.00	+	
		-	-	66kV CHP - Chumdo Fdr.	0.90	+	
		-	-	66kV CHP - Gedu Fdr.	8.90	+	
		Total	368.00	Error at Station/Auxiliary Consumption/Losses	3.46		
4	24MW BHP (U/S)	Unit- I	11.50	220kV BHP - Semtokha Fdr.	62.59	+	
		Unit- II	11.60	66kV BHP - Lobeyasa Fdr.	16.49	+	
		Total	23.10	220kV BHP - Tsirang Fdr.	-14.60	-	
	40MW BHP (L/S)	Unit- I	20.70	5MVA, 66/11kV TFR	0.44	+	
		Unit- II	21.10	30MVA ICT, 220/66kV	0.98		
		Total	41.80	Error at Station/Auxiliary Consumption/Losses	-0.02		
5	126MW DHPC	Unit-I	50.90	220kV DHPC - Tsirang Fdr.	78.14	+	
		Unit-II	28.03	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	78.93	Error at Station/Auxiliary Consumption/Losses	0.79		
6	60MW KHP	Unit- I	16.22	132kV KHP - Nangkhor Fdr- I	60.39	+	Note: Motanga Substation is bypassed through ERS tower.
		Unit-II	16.35	132kV KHP - Kilikhar Fdr- II	4.05	+	
		Unit- III	16.48	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.46	132kV Gelephu - Salakati Fdr.	30.35	+	
		-	-	132kV Motanga - Rangia Fdr.	42.95	+	
		-	-	220kV Tsirang - Jigmeling	64.29	+	
		Total	65.51	Error at Station/Auxiliary Consumption/Losses	0.67		

Note: Load summary on July 19, 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	1,634.73	206.44	222.71	1,364.00	-16.27
2	Eastern Grid	434.01	56.52	55.83	441.78	0.69
	Total	2,068.74	262.96	278.54	1,805.78	-15.58

Note: Load Summary on July 19, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	233.23	250.82	280.97
2	Eastern Grid	35.46	50.84	57.66
	National	268.69	301.66	338.63

NOTES: WLDC load 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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