

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 20, 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	187.10	400kV THP - Siliguri Fdr- I	259.59	+	
		Unit- II	187.32	400kV THP - Siliguri Fdr- II	258.26	+	
		Unit- III	187.47	400kV THP - Siliguri Fdr- IV	252.47	+	
		Unit- IV	187.07	400kV THP - Malbase Fdr- III	333.38	+	
		Unit- V	187.08	400kV Malbase - Siliguri	227.45	+	
		Unit- VI	186.27	-	-	-	
		Total	1,122.31	Error at Station/Auxiliary Consumption/Losses	18.61		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		MHEP Unit I & II tripped on 19th July, 2019 at 09:20 Hrs BST.
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	0.00		
		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	0.00	Error at Station/Auxiliary Consumption/Losses	0.00		
2	336MW CHP	Unit- I	91.67	220kV CHP - Birpara Fdr- I	115.65	+	
		Unit- II	91.52	220kV CHP - Birpara Fdr- II	115.62	+	
		Unit- III	91.67	220kV CHP - Malbase Fdr- III	151.79	+	
		Unit- IV	92.07	220kV CHP - Semtokha Fdr- IV	-28.04	-	
		-	-	220kV Malbase - Birpara Fdr.	72.50	+	
		-	-	66kV CHP - Chumdo Fdr.	2.51	+	
		-	-	66kV CHP - Gedu Fdr.	8.22	+	
		-	-	3x3MVA, 66/11kV TFR	1.01	+	
		Total	366.93	Error at Station/Auxiliary Consumption/Losses	0.17		
3	24MW BHP (U/S)	Unit- I	11.90	220kV BHP - Semtokha Fdr.	51.74	+	
		Unit- II	11.90	66kV BHP - Lobeyasa Fdr.	17.53	+	
		Total	23.80	220kV BHP - Tsirang Fdr.	-4.60	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.67	+	
		Unit- II	20.77	30MVA ICT, 220/66kV			
Total	41.31	Error at Station/Auxiliary Consumption/Losses	0.23				
4	126MW DHPC	Unit-I	50.24	220kV DHPC - Tsirang Fdr.	104.85	+	
		Unit-II	55.13	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	105.37	Error at Station/Auxiliary Consumption/Losses	0.52		
5	60MW KHP	Unit- I	16.38	132kV KHP - Nangkhor Fdr- I	56.72	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	15.98	132kV KHP - Kilikhar Fdr- II	7.89	+	
		Unit- III	16.62	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	16.44	132kV Gelephu - Salakati Fdr.	45.55	+	
		-	-	132kV Motanga - Rangia Fdr.	45.60	+	
		-	-	220kV Tsirang - Jigmeling	97.70	+	
		Total	65.42	Error at Station/Auxiliary Consumption/Losses	0.21		

Note: Load summary on July 20, 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	1,659.72	260.48	241.41	1,301.54	19.07
2	Eastern Grid	65.42	71.97	71.76	91.15	0.21
	Total	1,725.14	332.45	313.17	1,392.69	19.28

Note: Load Summary on July 20, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	210.99	226.91	280.97
2	Eastern Grid	41.69	43.64	57.66
	National	252.68	270.55	338.63

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:	July 21, 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	187.24	400kV THP - Siliguri Fdr- I	263.99	+	
		Unit- II	186.33	400kV THP - Siliguri Fdr- II	260.38	+	
		Unit- III	186.62	400kV THP - Siliguri Fdr- IV	254.50	+	
		Unit- IV	188.26	400kV THP - Malbase Fdr- III	322.57	+	
		Unit- V	186.65	400kV Malbase - Siliguri	232.10	+	
		Unit- VI	185.02	-	-	-	
		Total	1,120.12	Error at Station/Auxiliary Consumption/Losses	18.68		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00	+	MHEP Unit I tripped on 19th July, 2019 at 09:20 Hrs BST.
		Unit-II	190.00	400kV MHP - Jigmeling Fdr - II	189.44	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	190.00	Error at Station/Auxiliary Consumption/Losses	0.56		
3	336MW CHP	Unit- I	92.00	220kV CHP - Birpara Fdr- I	114.83	+	
		Unit- II	90.46	220kV CHP - Birpara Fdr- II	114.31	+	
		Unit- III	91.46	220kV CHP - Malbase Fdr- III	156.36	+	
		Unit- IV	91.70	220kV CHP - Semtokha Fdr- IV	-31.06	-	
		-	-	220kV Malbase - Birpara Fdr.	68.09	+	
		-	-	66kV CHP - Chumdo Fdr.	1.21	+	
		-	-	66kV CHP - Gedu Fdr.	7.91	+	
		Total	365.62	Error at Station/Auxiliary Consumption/Losses	1.16		
4	24MW BHP (U/S)	Unit- I	11.86	220kV BHP - Semtokha Fdr.	50.09	+	
		Unit- II	11.86	66kV BHP - Lobeyasa Fdr.	15.74	+	
		Total	23.72	220kV BHP - Tsirang Fdr.	-0.86	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	20.78	30MVA ICT, 220/66kV			
		Total	41.32	Error at Station/Auxiliary Consumption/Losses	-0.32		
5	126MW DHPC	Unit-I	45.16	220kV DHPC - Tsirang Fdr.	85.15	+	
		Unit-II	40.20	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	85.36	Error at Station/Auxiliary Consumption/Losses	0.21		
6	60MW KHP	Unit- I	15.48	132kV KHP - Nangkhor Fdr- I	58.41	+	Note: Motanga Substation is bypassed through ERS tower.
		Unit-II	15.18	132kV KHP - Kilikhar Fdr- II	4.15	+	
		Unit- III	16.17	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.18	132kV Gelephu - Salakati Fdr.	43.51	+	
		-	-	132kV Motanga - Rangia Fdr.	51.71	+	
		-	-	220kV Tsirang - Jigmeling	82.24	+	
		Total	63.01	Error at Station/Auxiliary Consumption/Losses	0.05		

Note: Load summary on July 21, 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	1,636.14	245.70	225.97	1,308.20	19.73
2	Eastern Grid	253.01	50.59	49.98	284.66	0.61
	Total	1,889.15	296.29	275.95	1,592.86	20.34

Note: Load Summary on July 21, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	215.08	231.77	280.97
2	Eastern Grid	31.36	46.20	57.66
	National	246.44	277.97	338.63

NOTES: MHP 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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