

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 17, 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	256.12	+	
		Unit- II	187.36	400kV THP - Siliguri Fdr- II	253.62	+	
		Unit- III	186.49	400kV THP - Siliguri Fdr- IV	247.49	+	
		Unit- IV	187.12	400kV THP - Malbase Fdr- III	346.82	+	
		Unit- V	187.27	400kV Malbase - Siliguri	219.55	+	
		Unit- VI	186.39	-	-	-	
		Total	1,122.12	Error at Station/Auxiliary Consumption/Losses	18.07		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00		MHEP Unit I & II tripped at 10:37 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	0.00	220kV CHP - Birpara Fdr- I	87.63	+	CHP unit I Tripped 16:15 Hrs
		Unit- II	92.20	220kV CHP - Birpara Fdr- II	87.24	+	
		Unit- III	91.77	220kV CHP - Malbase Fdr- III	111.83	+	
		Unit- IV	90.49	220kV CHP - Semtokha Fdr- IV	-24.22	-	
		-	-	220kV Malbase - Birpara Fdr.	58.02	+	
		-	-	66kV CHP - Chumdo Fdr.	3.16	+	
		-	-	66kV CHP - Gedu Fdr.	6.98	+	
		-	-	3x3MVA, 66/11kV TFR	1.11	+	
Total	274.46	Error at Station/Auxiliary Consumption/Losses	0.73				
3	24MW BHP (U/S)	Unit- I	11.84	220kV BHP - Semtokha Fdr.	48.95	+	
		Unit- II	11.84	66kV BHP - Lobeyasa Fdr.	17.96	+	
		Total	23.68	220kV BHP - Tsirang Fdr.	-2.43	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.61	+	
		Unit- II	20.81	30MVA ICT, 220/66kV			
Total	41.35	Error at Station/Auxiliary Consumption/Losses	0.06				
4	126MW DHPC	Unit-I	44.40	220kV DHPC - Tsirang Fdr.	86.11	+	
		Unit-II	42.14	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	86.54	Error at Station/Auxiliary Consumption/Losses	0.43		
5	60MW KHP	Unit- I	16.59	132kV KHP - Nangkor Fdr- I	61.69	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	17.02	132kV KHP - Kilikhar Fdr- II	3.05	+	
		Unit- III	16.58	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.32	132kV Gelephu - Salakati Fdr.	50.11	+	
		-	-	132kV Motanga - Rangia Fdr.	44.94	+	
		-	-	220kV Tsirang - Jigmeling	73.37	+	
		Total	66.51	Error at Station/Auxiliary Consumption/Losses	1.37		

Note: Load summary on July 17, 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	1,548.15	265.11	245.94	1,209.67	19.17
2	Eastern Grid	66.51	44.83	43.46	95.05	1.37
	Total	1,614.66	309.94	289.40	1,304.72	20.54

Note: Load Summary on July 17, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	225.50	235.72	280.97
2	Eastern Grid	35.92	38.90	57.66
	National	261.42	274.62	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 18, 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	186.62	400kV THP - Siliguri Fdr- I	269.55	+	
		Unit- II	184.04	400kV THP - Siliguri Fdr- II	267.10	+	
		Unit- III	186.89	400kV THP - Siliguri Fdr- IV	260.54	+	
		Unit- IV	187.22	400kV THP - Malbase Fdr- III	303.40	+	
		Unit- V	187.32	400kV Malbase - Siliguri	243.52	+	
		Unit- VI	187.36	-	-	-	
		Total	1,119.45	Error at Station/Auxiliary Consumption/Losses	18.86		
2	720MW MHP	Unit-I	179.10	400kV MHP - Jigmeling Fdr - I	181.79	+	
		Unit-II	183.30	400kV MHP - Jigmeling Fdr - II	179.68	+	
		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	362.40	Error at Station/Auxiliary Consumption/Losses	0.93		
3	336MW CHP	Unit- I	91.78	220kV CHP - Birpara Fdr- I	110.67	+	
		Unit- II	90.78	220kV CHP - Birpara Fdr- II	110.77	+	
		Unit- III	91.59	220kV CHP - Malbase Fdr- III	170.50	+	
		Unit- IV	91.77	220kV CHP - Semtokha Fdr- IV	-36.01	-	
		-	-	220kV Malbase - Birpara Fdr.	50.28	+	
		-	-	66kV CHP - Chumdo Fdr.	1.20	+	
		-	-	66kV CHP - Gedu Fdr.	8.43	+	
		Total	365.92	Error at Station/Auxiliary Consumption/Losses	-0.61		
4	24MW BHP (U/S)	Unit- I	11.68	220kV BHP - Semtokha Fdr.	57.41	+	
		Unit- II	11.68	66kV BHP - Lobeyasa Fdr.	15.90	+	
		Total	23.36	220kV BHP - Tsirang Fdr.	-8.86	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.44	+	
		Unit- II	20.76	30MVA ICT, 220/66kV	0.89		
		Total	41.30	Error at Station/Auxiliary Consumption/Losses	-0.23		
5	126MW DHPC	Unit-I	35.25	220kV DHPC - Tsirang Fdr.	69.94	+	
		Unit-II	35.12	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	70.37	Error at Station/Auxiliary Consumption/Losses	0.43		
6	60MW KHP	Unit- I	16.39	132kV KHP - Nangkor Fdr- I	61.58	+	Note: Motanga Substation is bypassed through ERS tower.
		Unit-II	16.45	132kV KHP - Kilikhar Fdr- II	3.71	+	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.51	132kV Gelephu - Salakati Fdr.	38.54	+	
		-	-	132kV Motanga - Rangia Fdr.	42.95	+	
		-	-	220kV Tsirang - Jigmeling	58.91	+	
		Total	65.94	Error at Station/Auxiliary Consumption/Losses	0.25		

Note: Load summary on July 18, 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	1,620.40	249.06	230.61	1,312.43	18.45
2	Eastern Grid	428.34	44.29	43.11	442.96	1.18
	Total	2,048.74	293.35	273.72	1,755.39	19.63

Note: Load Summary on July 18, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	223.27	247.01	280.97
2	Eastern Grid	32.11	39.26	57.66
	National	255.38	286.27	338.63

NOTES:

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 - 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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