

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 16, 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	187.25	400kV THP - Siliguri Fdr- I	264.27	+	
		Unit- II	187.51	400kV THP - Siliguri Fdr- II	263.73	+	
		Unit- III	186.77	400kV THP - Siliguri Fdr- IV	256.84	+	
		Unit- IV	187.16	400kV THP - Malbase Fdr- III	320.15	+	
		Unit- V	187.25	400kV Malbase - Siliguri	235.44	+	
		Unit- VI	186.11	-	-	-	
		Total	1,122.05	Error at Station/Auxiliary Consumption/Losses	17.06		
2	720MW MHP	Unit-I	168.80	400kV MHP - Jigmeling Fdr - I	175.50	+	COD for Unit-I: 12:30PM, 28th June, 2019. The current local load/auxiliary load is met from BPC, externally)
		Unit-II	179.30	400kV MHP - Jigmeling Fdr - II	172.90	+	
		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	348.10	Error at Station/Auxiliary Consumption/Losses	-0.30		
2	336MW CHP	Unit- I	91.84	220kV CHP - Birpara Fdr- I	120.90	+	
		Unit- II	91.41	220kV CHP - Birpara Fdr- II	121.01	+	
		Unit- III	91.54	220kV CHP - Malbase Fdr- III	149.95	+	
		Unit- IV	92.18	220kV CHP - Semtokha Fdr- IV	-38.75	-	
		-	-	220kV Malbase - Birpara Fdr.	82.95	+	
		-	-	66kV CHP - Chumdo Fdr.	2.84	+	
		-	-	66kV CHP - Gedu Fdr.	7.81	+	
		-	-	3x3MVA, 66/11kV TFR	1.11	+	
		Total	366.97	Error at Station/Auxiliary Consumption/Losses	2.10		
3	24MW BHP (U/S)	Unit- I	11.82	220kV BHP - Semtokha Fdr.	63.49	+	
		Unit- II	11.82	66kV BHP - Lobeyasa Fdr.	17.78	+	
		Total	23.64	220kV BHP - Tsirang Fdr.	-16.60	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.76	+	
		Unit- II	20.79	30MVA ICT, 220/66kV			
Total	41.33	Error at Station/Auxiliary Consumption/Losses	0.46				
4	126MW DHPC	Unit-I	57.11	220kV DHPC - Tsirang Fdr.	113.72	+	
		Unit-II	57.06	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	114.17	Error at Station/Auxiliary Consumption/Losses	0.45		
5	60MW KHP	Unit- I	16.21	132kV KHP - Nangkor Fdr- I	56.80	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.26	132kV KHP - Kilikhar Fdr- II	6.58	+	
		Unit- III	15.79	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.97	132kV Gelephu - Salakati Fdr.	49.91	+	
		-	-	132kV Motanga - Rangia Fdr.	54.30	+	
		-	-	220kV Tsirang - Jigmeling	94.16	+	
		Total	64.23	Error at Station/Auxiliary Consumption/Losses	0.45		

Note: Load summary on July 16, 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	1,668.16	228.86	209.71	1,345.14	19.15
2	Eastern Grid	412.33	53.88	53.73	452.61	0.15
	Total	2,080.49	282.74	263.44	1,797.75	19.30

Note: Load Summary on July 16, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	218.05	238.68	280.97
2	Eastern Grid	36.01	43.10	57.66
	National	254.06	281.78	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 17, 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	187.99	400kV THP - Siliguri Fdr- I	267.84	+	
		Unit- II	186.28	400kV THP - Siliguri Fdr- II	266.26	+	
		Unit- III	187.39	400kV THP - Siliguri Fdr- IV	259.77	+	
		Unit- IV	186.27	400kV THP - Malbase Fdr- III	309.67	+	
		Unit- V	186.68	400kV Malbase - Siliguri	240.56	+	
		Unit- VI	186.71	-	-	-	
		Total	1,121.32	Error at Station/Auxiliary Consumption/Losses	17.78		
2	720MW MHP	Unit-I	169.00	400kV MHP - Jigmeling Fdr - I	173.10	+	
		Unit-II	181.30	400kV MHP - Jigmeling Fdr - II	173.10	+	
		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	350.30	Error at Station/Auxiliary Consumption/Losses	4.10		
3	336MW CHP	Unit- I	91.92	220kV CHP - Birpara Fdr- I	118.75	+	
		Unit- II	91.10	220kV CHP - Birpara Fdr- II	118.87	+	
		Unit- III	91.55	220kV CHP - Malbase Fdr- III	170.70	+	
		Unit- IV	92.29	220kV CHP - Semtokha Fdr- IV	-52.14	-	
		-	-	220kV Malbase - Birpara Fdr.	64.47	+	
		-	-	66kV CHP - Chumdo Fdr.	0.66	+	
		-	-	66kV CHP - Gedu Fdr.	8.66	+	
		Total	366.86	Error at Station/Auxiliary Consumption/Losses	0.59		
4	24MW BHP (U/S)	Unit- I	12.00	220kV BHP - Semtokha Fdr.	73.43	+	
		Unit- II	12.00	66kV BHP - Lobeyasa Fdr.	16.10	+	
		Total	24.00	220kV BHP - Tsirang Fdr.	-24.96	-	
	40MW BHP (L/S)	Unit- I	20.00	5MVA, 66/11kV TFR	0.44	+	
		Unit- II	21.00	30MVA ICT, 220/66kV	0.89		
		Total	41.00	Error at Station/Auxiliary Consumption/Losses	-0.01		
5	126MW DHPC	Unit-I	51.37	220kV DHPC - Tsirang Fdr.	100.98	+	
		Unit-II	50.17	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	101.54	Error at Station/Auxiliary Consumption/Losses	0.56		
6	60MW KHP	Unit- I	15.80	132kV KHP - Nangkhor Fdr- I	61.70	+	Note: Motanga Substation is bypassed through ERS tower.
		Unit-II	16.67	132kV KHP - Kilikhar Fdr- II	3.06	+	
		Unit- III	16.65	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.52	132kV Gelephu - Salakati Fdr.	50.07	+	
		-	-	132kV Motanga - Rangia Fdr.	48.30	+	
		-	-	220kV Tsirang - Jigmeling	73.38	+	
		Total	65.64	Error at Station/Auxiliary Consumption/Losses	0.48		

Note: Load summary on July 17, 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	1,654.72	244.82	225.90	1,336.52	18.92
2	Eastern Grid	415.94	44.75	40.17	444.57	4.58
	Total	2,070.66	289.57	266.07	1,781.09	23.50

Note: Load Summary on July 17, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	204.66	235.72	280.97
2	Eastern Grid	22.85	38.90	57.66
	National	227.51	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.
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