

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 8, 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	187.34	400kV THP - Siliguri Fdr- I	263.98	+	
		Unit- II	187.12	400kV THP - Siliguri Fdr- II	263.27	+	
		Unit- III	187.08	400kV THP - Siliguri Fdr- IV	260.16	+	
		Unit- IV	187.89	400kV THP - Malbase Fdr- III	324.78	+	
		Unit- V	187.47	400kV Malbase - Siliguri	233.65	+	
		Unit- VI	179.41	-	-	-	
		Total	1,116.31	Error at Station/Auxiliary Consumption/Losses	4.12		
2	720MW MHP	Unit-I	183.89	400kV MHP - Jigmeling Fdr - I	183.00		COD for Unit-I: 12:30PM, 28th June, 2019. The current local load/auxiliary load is met from BPC, externally)
		Unit-II	175.00	400kV MHP - Jigmeling Fdr - II	174.00		
		Unit-IV		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	358.89	Error at Station/Auxiliary Consumption/Losses	1.89		
2	336MW CHP	Unit- I	91.81	220kV CHP - Birpara Fdr- I	120.81	+	
		Unit- II	91.69	220kV CHP - Birpara Fdr- II	120.81	+	
		Unit- III	91.66	220kV CHP - Malbase Fdr- III	156.96	+	
		Unit- IV	91.82	220kV CHP - Semtokha Fdr- IV	-46.01	-	
		-	-	220kV Malbase - Birpara Fdr.	54.51	+	
		-	-	66kV CHP - Chumdo Fdr.	4.85	+	
		-	-	66kV CHP - Gedu Fdr.	7.81	+	
		-	-	3x3MVA, 66/11kV TFR	1.18	+	
		Total	366.98	Error at Station/Auxiliary Consumption/Losses	0.57		
3	24MW BHP (U/S)	Unit- I	11.86	220kV BHP - Semtokha Fdr.	73.30	+	
		Unit- II	11.86	66kV BHP - Lobeyasa Fdr.	18.83	+	
		Total	23.72	220kV BHP - Tsirang Fdr.	-26.50	-	
	60MW BHP (L/S)	Unit- I	20.51	5MVA, 66/11kV TFR	0.27	+	
		Unit- II	20.56	30MVA ICT, 220/66kV			
Total	41.07	Error at Station/Auxiliary Consumption/Losses	1.11				
4	126MW DHPC	Unit-I	63.40	220kV DHPC - Tsirang Fdr.	125.89	+	
		Unit-II	63.11	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.51	Error at Station/Auxiliary Consumption/Losses	0.62		
5	60MW KHP	Unit- I	16.55	132kV KHP - Nangkhon Fdr- I	57.91	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.52	132kV KHP - Kilikhar Fdr- II	7.04	+	
		Unit- III	16.24	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.27	132kV Gelephu - Salakati Fdr.	54.03	+	
		-	-	132kV Motanga - Rangia Fdr.	57.14	+	
		-	-	220kV Tsirang - Jigmeling	95.35	+	
		Total	65.58	Error at Station/Auxiliary Consumption/Losses	0.13		

Note: Load summary on July 08, 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	1,674.59	262.05	257.85	1,317.19	4.20
2	Eastern Grid	424.47	51.65	49.63	468.17	2.02
	Total	2,099.06	313.70	307.48	1,785.36	6.22

Note: Load Summary on July 08, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	218.80	228.97	280.97
2	Eastern Grid	32.94	40.20	57.66
	National	251.74	269.17	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 9, 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	186.15	400kV THP - Siliguri Fdr- I	269.16	+	
		Unit- II	186.45	400kV THP - Siliguri Fdr- II	269.32	+	
		Unit- III	185.12	400kV THP - Siliguri Fdr- IV	269.36	+	
		Unit- IV	186.57	400kV THP - Malbase Fdr- III	305.30	+	
		Unit- V	187.01	400kV Malbase - Siliguri	243.96	+	
		Unit- VI	187.27	-	-	-	
		Total	1,118.57	Error at Station/Auxiliary Consumption/Losses	5.43		
2	720MW MHP	Unit-I	183.00	400kV MHP - Jigmeling Fdr - I	174.62		
		Unit-II	175.00	400kV MHP - Jigmeling Fdr - II	179.62		
		Unit-IV	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	358.00	Error at Station/Auxiliary Consumption/Losses	3.76		
3	336MW CHP	Unit- I	91.96	220kV CHP - Birpara Fdr- I	118.05	+	
		Unit- II	91.69	220kV CHP - Birpara Fdr- II	117.44	+	
		Unit- III	92.20	220kV CHP - Malbase Fdr- III	169.78	+	
		Unit- IV	91.65	220kV CHP - Semtokha Fdr- IV	-48.82	-	
		-	-	220kV Malbase - Birpara Fdr.	64.26	+	
		-	-	66kV CHP - Chumdo Fdr.	0.39	+	
		-	-	66kV CHP - Gedu Fdr.	9.29	+	
		-	-	3x3MVA, 66/11kV TFR	0.78	+	
Total	367.50	Error at Station/Auxiliary Consumption/Losses	0.59				
4	24MW BHP (U/S)	Unit- I	11.33	220kV BHP - Semtokha Fdr.	68.51	+	
		Unit- II	11.33	66kV BHP - Lobeyasa Fdr.	15.77	+	
		Total	22.66	220kV BHP - Tsirang Fdr.	-19.97	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.18	+	
		Unit- II	20.74	30MVA ICT, 220/66kV			
Total	41.28	Error at Station/Auxiliary Consumption/Losses	-0.55				
5	126MW DHPC	Unit-I	44.40	220kV DHPC - Tsirang Fdr.	88.10	+	
		Unit-II	44.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	88.58	Error at Station/Auxiliary Consumption/Losses	0.48		
6	60MW KHP	Unit- I	16.58	132kV KHP - Nangkhor Fdr- I	60.65	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.73	132kV KHP - Kilikhar Fdr- II	4.56	+	
		Unit- III	16.19	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.56	132kV Gelephu - Salakati Fdr.	46.26	+	
		-	-	132kV Motanga - Rangia Fdr.	46.52	+	
		-	-	220kV Tsirang - Jigmeling	66.64	+	
		Total	66.06	Error at Station/Auxiliary Consumption/Losses	0.35		

Note: Load summary on July 09, 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	1,638.59	220.40	214.45	1,351.55	5.95
2	Eastern Grid	424.06	43.68	39.57	447.02	4.11
	Total	2,062.65	264.08	254.02	1,798.57	10.06

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

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	187.90	230.52	280.97
2	Eastern Grid	29.20	40.72	57.66
	National	217.10	271.24	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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