

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 14, 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	186.61	400kV THP - Siliguri Fdr- I	260.34	+	
		Unit- II	188.09	400kV THP - Siliguri Fdr- II	257.37	+	
		Unit- III	186.90	400kV THP - Siliguri Fdr- IV	250.64	+	
		Unit- IV	186.52	400kV THP - Malbase Fdr- III	333.60	+	
		Unit- V	187.28	400kV Malbase - Siliguri	226.81	+	
		Unit- VI	186.99	-	-	-	
		Total	1,122.39	Error at Station/Auxiliary Consumption/Losses	20.44		
2	720MW MHP	Unit-I	168.80	400kV MHP - Jigmeling Fdr - I	174.91		COD for Unit-I: 12:30PM, 28th June, 2019. The current local load/auxiliary load is met from BPC, externally)
		Unit-II	181.70	400kV MHP - Jigmeling Fdr - II	174.90		
		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	350.50	Error at Station/Auxiliary Consumption/Losses	0.69		
2	336MW CHP	Unit- I	92.10	220kV CHP - Birpara Fdr- I	121.87	+	
		Unit- II	91.17	220kV CHP - Birpara Fdr- II	122.04	+	
		Unit- III	91.43	220kV CHP - Malbase Fdr- III	162.85	+	
		Unit- IV	92.10	220kV CHP - Semtokha Fdr- IV	-51.82	-	
		-	-	220kV Malbase - Birpara Fdr.	74.87	+	
		-	-	66kV CHP - Chumdo Fdr.	2.26	+	
		-	-	66kV CHP - Gedu Fdr.	7.51	+	
		-	-	3x3MVA, 66/11kV TFR	1.15	+	
		Total	366.80	Error at Station/Auxiliary Consumption/Losses	0.94		
3	24MW BHP (U/S)	Unit- I	11.86	220kV BHP - Semtokha Fdr.	78.21	+	
		Unit- II	11.86	66kV BHP - Lobeyasa Fdr.	16.91	+	
		Total	23.72	220kV BHP - Tsirang Fdr.	-30.26	-	
	60MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.90	+	
		Unit- II	20.81	30MVA ICT, 220/66kV			
Total	41.35	Error at Station/Auxiliary Consumption/Losses	0.69				
4	126MW DHPC	Unit-I	63.55	220kV DHPC - Tsirang Fdr.	126.29	+	
		Unit-II	63.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.71	Error at Station/Auxiliary Consumption/Losses	0.42		
5	60MW KHP	Unit- I	15.95	132kV KHP - Nangkhor Fdr- I	55.79	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.43	132kV KHP - Kilikhar Fdr- II	6.76	+	
		Unit- III	15.39	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.55	132kV Gelephu - Salakati Fdr.	52.04	+	
		-	-	132kV Motanga - Rangia Fdr.	40.87	+	
		-	-	220kV Tsirang - Jigmeling	91.55	+	
		Total	63.32	Error at Station/Auxiliary Consumption/Losses	0.37		

Note: Load summary on July 14, 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	1,680.97	275.48	254.37	1,313.94	21.11
2	Eastern Grid	413.82	62.65	61.59	442.72	1.06
	Total	2,094.79	338.13	315.96	1,756.66	22.17

Note: Load Summary on July 14, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	217.04	226.26	280.97
2	Eastern Grid	37.39	41.23	57.66
	National	254.43	267.49	338.63

NOTES: MHP DATA 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.
 - 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 15, 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	186.97	400kV THP - Siliguri Fdr- I	273.33	+	
		Unit- II	186.45	400kV THP - Siliguri Fdr- II	271.52	+	
		Unit- III	187.00	400kV THP - Siliguri Fdr- IV	265.10	+	
		Unit- IV	187.14	400kV THP - Malbase Fdr- III	290.59	+	
		Unit- V	185.67	400kV Malbase - Siliguri	251.00	+	
		Unit- VI	186.42	-	-	-	
		Total	1,119.65	Error at Station/Auxiliary Consumption/Losses	19.11		
2	720MW MHP	Unit-I	168.70	400kV MHP - Jigmeling Fdr - I	175.30	+	
		Unit-II	179.30	400kV MHP - Jigmeling Fdr - II	172.90	+	
		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	348.00	Error at Station/Auxiliary Consumption/Losses	-0.20		
3	336MW CHP	Unit- I	92.45	220kV CHP - Birpara Fdr- I	122.76	+	
		Unit- II	91.17	220kV CHP - Birpara Fdr- II	122.40	+	
		Unit- III	92.33	220kV CHP - Malbase Fdr- III	182.03	+	
		Unit- IV	91.68	220kV CHP - Semtokha Fdr- IV	-68.93	-	
		-	-	220kV Malbase - Birpara Fdr.	61.33	+	
		-	-	66kV CHP - Chumdo Fdr.	0.22	+	
		-	-	66kV CHP - Gedu Fdr.	8.37	+	
		Total	367.63	Error at Station/Auxiliary Consumption/Losses	-0.06		
4	24MW BHP (U/S)	Unit- I	11.84	220kV BHP - Semtokha Fdr.	91.52	+	
		Unit- II	11.84	66kV BHP - Lobeyasa Fdr.	17.12	+	
		Total	23.68	220kV BHP - Tsirang Fdr.	-42.87	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.44	+	
		Unit- II	20.81	30MVA ICT, 220/66kV			
		Total	41.35	Error at Station/Auxiliary Consumption/Losses	-1.18		
5	126MW DHPC	Unit-I	63.50	220kV DHPC - Tsirang Fdr.	126.27	+	
		Unit-II	63.30	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.80	Error at Station/Auxiliary Consumption/Losses	0.53		
6	60MW KHP	Unit- I	16.32	132kV KHP - Nangkhor Fdr- I	58.89	+	Note: Motanga Substation is bypassed through ERS tower.
		Unit-II	16.46	132kV KHP - Kilikhar Fdr- II	4.53	+	
		Unit- III	15.39	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	15.48	132kV Gelephu - Salakati Fdr.	54.62	+	
		-	-	132kV Motanga - Rangia Fdr.	42.61	+	
		-	-	220kV Tsirang - Jigmeling	80.08	+	
		Total	63.65	Error at Station/Auxiliary Consumption/Losses	-0.17		

Note: Load summary on July 15, 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	1,679.11	231.59	213.19	1,367.44	18.40
2	Eastern Grid	411.65	46.30	46.67	445.43	-0.37
	Total	2,090.76	277.89	259.86	1,812.87	18.03

Note: Load Summary on July 15, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	193.97	221.87	280.97
2	Eastern Grid	29.34	44.70	57.66
	National	223.31	266.57	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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