

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 24, 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	187.11	400kV THP - Siliguri Fdr- I	263.39	+	
		Unit- II	187.91	400kV THP - Siliguri Fdr- II	262.12	+	
		Unit- III	186.23	400kV THP - Siliguri Fdr- IV	260.11	+	
		Unit- IV	185.74	400kV THP - Malbase Fdr- III	331.20	+	
		Unit- V	187.55	400kV Malbase - Siliguri	228.17	+	
		Unit- VI	186.35	-	-	-	
		Total	1,120.89	Error at Station/Auxiliary Consumption/Losses	4.07		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	194.81	+	MHEP Unit-I at spinning mode and 400kV MHP-JLG I idle charged till MHEP End
		Unit-II	195.17	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	195.17	Error at Station/Auxiliary Consumption/Losses	0.36		
2	336MW CHP	Unit- I	91.56	220kV CHP - Birpara Fdr- I	115.88	+	
		Unit- II	91.50	220kV CHP - Birpara Fdr- II	116.05	+	
		Unit- III	91.63	220kV CHP - Malbase Fdr- III	156.69	+	
		Unit- IV	91.38	220kV CHP - Semtokha Fdr- IV	-31.47	-	
		-	-	220kV Malbase - Birpara Fdr.	69.38	+	
		-	-	66kV CHP - Chumdo Fdr.	4.66	+	
		-	-	66kV CHP - Gedu Fdr.	2.36	+	
		-	-	3x3MVA, 66/11kV TFR	1.15	+	
		Total	366.07	Error at Station/Auxiliary Consumption/Losses	0.75		
3	24MW BHP (U/S)	Unit- I	11.85	220kV BHP - Semtokha Fdr.	58.52	+	
		Unit- II	11.85	66kV BHP - Lobeyasa Fdr.	19.09	+	
		Total	23.70	220kV BHP - Tsirang Fdr.	-13.28	+	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.74	+	
		Unit- II	20.75	30MVA ICT, 220/66kV			
Total	41.29	Error at Station/Auxiliary Consumption/Losses	0.08				
4	126MW DHPC	Unit-I	56.38	220kV DHPC - Tsirang Fdr.	111.93	+	
		Unit-II	56.09	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	112.47	Error at Station/Auxiliary Consumption/Losses	0.54		
5	60MW KHP	Unit- I	16.43	132kV KHP - Nangkor Fdr- I	56.25	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.64	132kV KHP - Kilikhar Fdr- II	7.71	+	
		Unit- III	15.80	5MVA, 132/11kV TFR	0.60	+	
		Unit- IV	15.75	132kV Gelephu - Salakati Fdr.	43.19	+	
		-	-	132kV Motanga - Rangia Fdr.	58.91	+	
		-	-	220kV Tsirang - Jigmeling	111.77	+	
		Total	64.62	Error at Station/Auxiliary Consumption/Losses	0.06		

Note: Load summary on July 24, 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	1,664.42	237.55	232.27	1,315.10	5.28
2	Eastern Grid	259.79	74.65	74.23	296.91	0.42
	Total	1,924.21	312.20	306.50	1,612.01	5.70

Note: Load Summary on July 24, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	231.21	242.90	280.97
2	Eastern Grid	48.22	50.91	57.66
	National	279.43	293.81	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 25, 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	187.39	400kV THP - Siliguri Fdr- I	267.37	+	
		Unit- II	186.98	400kV THP - Siliguri Fdr- II	268.69	+	
		Unit- III	186.18	400kV THP - Siliguri Fdr- IV	267.61	+	
		Unit- IV	185.17	400kV THP - Malbase Fdr- III	308.11	+	
		Unit- V	187.22	400kV Malbase - Siliguri	240.68	+	
		Unit- VI	185.90	-	-	-	
		Total	1,118.84	Error at Station/Auxiliary Consumption/Losses	7.06		
2	720MW MHP	Unit-I	187.80	400kV MHP - Jigmeling Fdr - I	375.56	+	MHEP Unit-I and 400kV MHP-JLG I under breakdown.
		Unit-II	191.80	400kV MHP - Jigmeling Fdr - II	0.00		
		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	379.60	Error at Station/Auxiliary Consumption/Losses	4.04		
3	336MW CHP	Unit- I	90.88	220kV CHP - Birpara Fdr- I	118.44	+	
		Unit- II	90.61	220kV CHP - Birpara Fdr- II	118.18	+	
		Unit- III	91.31	220kV CHP - Malbase Fdr- III	174.29	+	
		Unit- IV	91.01	220kV CHP - Semtokha Fdr- IV	-51.20	-	
		-	-	220kV Malbase - Birpara Fdr.	60.21	+	
		-	-	66kV CHP - Chumdo Fdr.	2.11	+	
		-	-	66kV CHP - Gedu Fdr.	1.56	+	
		-	-	3x3MVA, 66/11kV TFR	0.80	+	
		Total	363.81	Error at Station/Auxiliary Consumption/Losses	-0.37		
4	24MW BHP (U/S)	Unit- I	11.85	220kV BHP - Semtokha Fdr.	70.54	+	
		Unit- II	11.85	66kV BHP - Lobeyasa Fdr.	17.25	+	
		Total	23.70	220kV BHP - Tsirang Fdr.	-22.55	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.35	+	
		Unit- II	20.83	30MVA ICT, 220/66kV			
		Total	41.37	Error at Station/Auxiliary Consumption/Losses	-0.52		
5	126MW DHPC	Unit-I	63.55	220kV DHPC - Tsirang Fdr.	126.37	+	
		Unit-II	63.39	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.94	Error at Station/Auxiliary Consumption/Losses	0.57		
6	60MW KHP	Unit- I	0.00	132kV KHP - Nangkor Fdr- I	-4.13	+	KHP Dam Scouring from 5:00Hrs-17:00Hrs Motanga Substation is bypassed through ERS tower.
		Unit-II	0.00	132kV KHP - Kilikhar Fdr- II	3.85	+	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	0.00	132kV Gelephu - Salakati Fdr.	38.43	+	
		-	-	132kV Motanga - Rangia Fdr.	15.79	+	
		-	-	220kV Tsirang - Jigmeling	100.76	+	
		Total	0.00	Error at Station/Auxiliary Consumption/Losses	-0.12		

Note: Load summary on July 25, 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	1,674.66	232.72	225.98	1,341.18	6.74
2	Eastern Grid	379.60	50.58	46.66	429.78	3.92
	Total	2,054.26	283.30	272.64	1,770.96	10.66

Note: Load Summary on July 25, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	225.95	246.68	280.97
2	Eastern Grid	40.64	51.05	57.66
	National	266.59	297.73	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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