

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 10, 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	180.79	400kV THP - Siliguri Fdr- I	256.91	+	
		Unit- II	188.33	400kV THP - Siliguri Fdr- II	256.22	+	
		Unit- III	187.12	400kV THP - Siliguri Fdr- IV	254.50	+	
		Unit- IV	186.41	400kV THP - Malbase Fdr- III	345.92	+	
		Unit- V	187.25	400kV Malbase - Siliguri	232.36	+	
		Unit- VI	185.99	-	-	-	
		Total	1,115.89	Error at Station/Auxiliary Consumption/Losses	2.34		
2	720MW MHP	Unit-I	182.60	400kV MHP - Jigmeling Fdr - I	183.04		COD for Unit-I: 12:30PM, 28th June, 2019. The current local load/auxiliary load is met from BPC, externally)
		Unit-II	181.60	400kV MHP - Jigmeling Fdr - II	181.34		
		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	364.20	Error at Station/Auxiliary Consumption/Losses	-0.18		
2	336MW CHP	Unit- I	92.07	220kV CHP - Birpara Fdr- I	121.29	+	
		Unit- II	91.51	220kV CHP - Birpara Fdr- II	121.92	+	
		Unit- III	91.83	220kV CHP - Malbase Fdr- III	161.38	+	
		Unit- IV	91.54	220kV CHP - Semtokha Fdr- IV	-51.05	-	
		-	-	220kV Malbase - Birpara Fdr.	75.93	+	
		-	-	66kV CHP - Chumdo Fdr.	2.12	+	
		-	-	66kV CHP - Gedu Fdr.	8.45	+	
		-	-	3x3MVA, 66/11kV TFR	1.18	+	
		Total	366.95	Error at Station/Auxiliary Consumption/Losses	1.66		
3	24MW BHP (U/S)	Unit- I	11.85	220kV BHP - Semtokha Fdr.	76.42	+	
		Unit- II	11.85	66kV BHP - Lobeyasa Fdr.	18.62	+	
		Total	23.70	220kV BHP - Tsirang Fdr.	-29.57	-	
	60MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.77	+	
		Unit- II	20.77	30MVA ICT, 220/66kV			
Total	41.31	Error at Station/Auxiliary Consumption/Losses	1.23				
4	126MW DHPC	Unit-I	63.54	220kV DHPC - Tsirang Fdr.	126.22	+	
		Unit-II	63.16	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.70	Error at Station/Auxiliary Consumption/Losses	0.48		
5	60MW KHP	Unit- I	16.54	132kV KHP - Nangkhon Fdr- I	58.39	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.56	132kV KHP - Kilikhar Fdr- II	6.35	+	
		Unit- III	16.08	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.36	132kV Gelephu - Salakati Fdr.	53.18	+	
		-	-	132kV Motanga - Rangia Fdr.	44.40	+	
		-	-	220kV Tsirang - Jigmeling	92.40	+	
		Total	65.54	Error at Station/Auxiliary Consumption/Losses	0.30		

Note: Load summary on July 10, 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	1,674.55	263.02	259.77	1,319.13	3.25
2	Eastern Grid	429.74	60.18	60.06	461.96	0.12
	Total	2,104.29	323.20	319.83	1,781.09	3.37

Note: Load Summary on July 10, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	221.80	228.76	280.97
2	Eastern Grid	40.84	43.01	57.66
	National	262.64	271.77	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 11, 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	186.49	400kV THP - Siliguri Fdr- I	271.13	+	
		Unit- II	185.36	400kV THP - Siliguri Fdr- II	268.50	+	
		Unit- III	187.87	400kV THP - Siliguri Fdr- IV	262.92	+	
		Unit- IV	186.88	400kV THP - Malbase Fdr- III	299.40	+	
		Unit- V	186.64	400kV Malbase - Siliguri	247.37	+	
		Unit- VI	186.65	-	-	-	
		Total	1,119.89	Error at Station/Auxiliary Consumption/Losses	17.94		
2	720MW MHP	Unit-I	183.10	400kV MHP - Jigmeling Fdr - I	182.00		
		Unit-II	182.30	400kV MHP - Jigmeling Fdr - II	182.00		
		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	365.40	Error at Station/Auxiliary Consumption/Losses	1.40		
3	336MW CHP	Unit- I	91.56	220kV CHP - Birpara Fdr- I	122.45	+	
		Unit- II	91.82	220kV CHP - Birpara Fdr- II	122.34	+	
		Unit- III	90.75	220kV CHP - Malbase Fdr- III	184.89	+	
		Unit- IV	91.57	220kV CHP - Semtokha Fdr- IV	-73.81	-	
		-	-	220kV Malbase - Birpara Fdr.	58.03	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.48	-	
		-	-	66kV CHP - Gedu Fdr.	8.37	+	
		-	-	3x3MVA, 66/11kV TFR	0.80	+	
Total	365.70	Error at Station/Auxiliary Consumption/Losses	1.14				
4	24MW BHP (U/S)	Unit- I	11.89	220kV BHP - Semtokha Fdr.	93.16	+	
		Unit- II	11.89	66kV BHP - Lobeyasa Fdr.	17.46	+	
		Total	23.78	220kV BHP - Tsirang Fdr.	-45.21	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.43	+	
		Unit- II	20.79	30MVA ICT, 220/66kV			
		Total	41.33	Error at Station/Auxiliary Consumption/Losses	-0.73		
5	126MW DHPC	Unit-I	63.52	220kV DHPC - Tsirang Fdr.	126.24	+	
		Unit-II	63.27	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.79	Error at Station/Auxiliary Consumption/Losses	0.55		
6	60MW KHP	Unit- I	16.37	132kV KHP - Nangkhor Fdr- I	61.96	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	3.79	+	
		Unit- III	16.21	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.37	132kV Gelephu - Salakati Fdr.	55.80	+	
		-	-	132kV Motanga - Rangia Fdr.	44.18	+	
		-	-	220kV Tsirang - Jigmeling	76.00	+	
		Total	65.45	Error at Station/Auxiliary Consumption/Losses	-0.70		

Note: Load summary on July 11, 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	1,677.49	248.75	229.85	1,352.74	18.90
2	Eastern Grid	430.85	42.87	42.17	463.98	0.70
	Total	2,108.34	291.62	272.02	1,816.72	19.60

Note: Load Summary on July 11, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	188.50	219.51	280.97
2	Eastern Grid	32.41	39.02	57.66
	National	220.91	258.53	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.