

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 2, 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	109.47	400kV THP - Siliguri Fdr- I	114.89	+	Unit II Standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	113.15	+	
		Unit- III	100.52	400kV THP - Siliguri Fdr- IV	113.56	+	
		Unit- IV	100.63	400kV THP - Malbase Fdr- III	194.38	+	
		Unit- V	80.27	400kV Malbase - Siliguri	89.95	+	
		Unit- VI	150.04	-	-	-	
		Total	540.93	Error at Station/Auxiliary Consumption/Losses	4.95		
2	720MW MHP	Unit-I	182.00	400kV MHP - Jigmeling Fdr - I	0.00	-	COD for Unit-I: 12:30PM, 28th June, 2019. The current local load/auxiliary load is met from BPC, externally)
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	182.00	+	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - III	0.00	-	
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00	-	
		-	-	200MVA, 400/132kV ICT	0.00	-	
		-	-	(Local Load)	0.00	-	
		Total	182.00	Error at Station/Auxiliary Consumption/Losses	0.00		
2	336MW CHP	Unit- I	86.32	220kV CHP - Birpara Fdr- I	57.18	+	Unit IV Standby
		Unit- II	86.48	220kV CHP - Birpara Fdr- II	57.45	+	
		Unit- III	86.05	220kV CHP - Malbase Fdr- III	90.50	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	39.98	+	
		-	-	220kV Malbase - Birpara Fdr.	25.21	+	
		-	-	66kV CHP - Chumdo Fdr.	5.77	+	
		-	-	66kV CHP - Gedu Fdr.	5.76	+	
		-	-	3x3MVA, 66/11kV TFR	1.03	+	
		Total	258.85	Error at Station/Auxiliary Consumption/Losses	1.18		
3	24MW BHP (U/S)	Unit- I	9.00	220kV BHP - Semtokha Fdr.	-12.07	-	BHP(U/S) unit II & (L/S) unit I on standby
		Unit- II	0.00	66kV BHP - Lobeysa Fdr.	10.06	+	
		Total	9.00	220kV BHP - Tsirang Fdr.	20.40	+	
	60MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.69	+	
		Unit- II	12.82	30MVA ICT, 220/66kV	-		
Total	12.82	Error at Station/Auxiliary Consumption/Losses	2.74				
4	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	23.94	+	Unit-I standby
		Unit-II	24.17	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	24.17	Error at Station/Auxiliary Consumption/Losses	0.23		
5	60MW KHP	Unit- I	16.44	132kV KHP - Nangkhon Fdr- I	58.11	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.41	132kV KHP - Kilikhar Fdr- II	7.22	+	
		Unit- III	16.67	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.33	132kV Gelephu - Salakati Fdr.	10.65	+	
		-	-	132kV Motanga - Rangia Fdr.	46.63	+	
		-	-	220kV Tsirang - Jigmeling	43.55	+	
		Total	65.85	Error at Station/Auxiliary Consumption/Losses	0.02		

Note: Load summary on July 02, 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	845.77	230.83	221.73	571.39	9.10
2	Eastern Grid	247.85	52.12	52.10	239.28	0.02
	Total	1,093.62	282.95	273.83	810.67	9.12

Note: Load Summary on July 02, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	240.41	247.16	261.96
2	Eastern Grid	40.10	41.66	61.02
	National	280.51	288.82	322.98

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 3, 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	166.50	400kV THP - Siliguri Fdr- I	189.00	+	Unit-II standby
		Unit- II	0.00	400kV THP - Siliguri Fdr- II	189.50	+	
		Unit- III	140.75	400kV THP - Siliguri Fdr- IV	182.94	+	
		Unit- IV	170.00	400kV THP - Malbase Fdr- III	223.30	+	
		Unit- V	167.00	400kV Malbase - Siliguri	169.83	+	
		Unit- VI	150.00	-	-	-	
		Total	794.25	Error at Station/Auxiliary Consumption/Losses	9.51		
2	720MW MHP	Unit-I	182.50	400kV MHP - Jigmeling Fdr - I	0.00		COD for Unit-I: 12:30PM, 28th June, 2019. The current local load/auxiliary load is met from BPC, externally)
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	179.60		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)			
		Total	182.50	Error at Station/Auxiliary Consumption/Losses	2.90		
3	336MW CHP	Unit- I	91.68	220kV CHP - Birpara Fdr- I	90.84	+	
		Unit- II	91.08	220kV CHP - Birpara Fdr- II	90.89	+	
		Unit- III	91.29	220kV CHP - Malbase Fdr- III	138.97	+	
		Unit- IV	91.73	220kV CHP - Semtokha Fdr- IV	30.75	+	
		-	-	220kV Malbase - Birpara Fdr.	42.92	+	
		-	-	66kV CHP - Chumdo Fdr.	3.83	+	
		-	-	66kV CHP - Gedu Fdr.	7.73	+	
		-	-	3x3MVA, 66/11kV TFR	0.75	+	
Total	365.78	Error at Station/Auxiliary Consumption/Losses	2.02				
4	24MW BHP (U/S)	Unit- I	6.50	220kV BHP - Semtokha Fdr.	-7.03	-	BHP(U/S) unit II & (L/S) unit I on standby
		Unit- II	0.00	66kV BHP - Lobeyasa Fdr.	8.54	+	
		Total	6.50	220kV BHP - Tsirang Fdr.	16.37	+	
	40MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.41	+	
		Unit- II	12.50	30MVA ICT, 220/66kV			
Total	12.50	Error at Station/Auxiliary Consumption/Losses	0.71				
5	126MW DHPC	Unit-I	0.00	220kV DHPC - Tsirang Fdr.	23.93	+	Unit-I standby
		Unit-II	24.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	24.18	Error at Station/Auxiliary Consumption/Losses	0.25		
6	60MW KHP	Unit- I	16.40	132kV KHP - Nangkor Fdr- I	61.81	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.72	132kV KHP - Kilikhar Fdr- II	3.82	+	
		Unit- III	16.64	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.73	132kV Gelephu - Salakati Fdr.	15.51	+	
		-	-	132kV Motanga - Rangia Fdr.	40.44	+	
		-	-	220kV Tsirang - Jigmeling	39.17	+	
		Total	66.49	Error at Station/Auxiliary Consumption/Losses	0.36		

Note: Load summary on July 03, 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	1,203.21	208.12	195.63	955.92	12.49
2	Eastern Grid	248.99	52.61	49.35	235.55	3.26
	Total	1,452.20	260.73	244.98	1,191.47	15.75

Note: Load Summary on July 03, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	212.16	252.93	261.96
2	Eastern Grid	34.58	36.88	61.02
	National	246.74	289.81	322.98

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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