

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	July 15, 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	187.65	400kV THP - Siliguri Fdr- I	267.06	+	
		Unit- II	184.57	400kV THP - Siliguri Fdr- II	265.31	+	
		Unit- III	188.10	400kV THP - Siliguri Fdr- IV	265.94	+	
		Unit- IV	186.80	400kV THP - Malbase Fdr- III	311.64	+	
		Unit- V	188.48	400kV Malbase - Siliguri	240.19	+	
		Unit- VI	186.58	-	-	-	
		Total	1,122.18	Error at Station/Auxiliary Consumption/Losses	12.23		
2	720MW MHP	Unit-I	168.80	400kV MHP - Jigmeling Fdr - I	175.50		COD for Unit-I: 12:30PM, 28th June, 2019. The current local load/auxiliary load is met from BPC, externally)
		Unit-II	179.20	400kV MHP - Jigmeling Fdr - II	179.00		
		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	348.00	Error at Station/Auxiliary Consumption/Losses	-6.50		
2	336MW CHP	Unit- I	91.65	220kV CHP - Birpara Fdr- I	120.29	+	
		Unit- II	91.33	220kV CHP - Birpara Fdr- II	120.61	+	
		Unit- III	91.61	220kV CHP - Malbase Fdr- III	161.89	+	
		Unit- IV	91.02	220kV CHP - Semtokha Fdr- IV	-49.51	-	
		-	-	220kV Malbase - Birpara Fdr.	73.58	+	
		-	-	66kV CHP - Chumdo Fdr.	2.71	+	
		-	-	66kV CHP - Gedu Fdr.	7.98	+	
		-	-	3x3MVA, 66/11kV TFR	1.22	+	
		Total	365.61	Error at Station/Auxiliary Consumption/Losses	0.42		
3	24MW BHP (U/S)	Unit- I	11.83	220kV BHP - Semtokha Fdr.	77.33	+	
		Unit- II	11.83	66kV BHP - Lobeyasa Fdr.	18.46	+	
		Total	23.66	220kV BHP - Tsirang Fdr.	-30.59	-	
	60MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.70	+	
		Unit- II	20.80	30MVA ICT, 220/66kV			
Total	41.34	Error at Station/Auxiliary Consumption/Losses	0.90				
4	126MW DHPC	Unit-I	63.56	220kV DHPC - Tsirang Fdr.	126.33	+	
		Unit-II	63.34	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.90	Error at Station/Auxiliary Consumption/Losses	0.57		
5	60MW KHP	Unit- I	16.13	132kV KHP - Nangkhon Fdr- I	55.29	+	Note: Motanga Substation is bypassed through ERS tower
		Unit-II	16.32	132kV KHP - Kilikhar Fdr- II	6.89	+	
		Unit- III	15.86	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.22	132kV Gelephu - Salakati Fdr.	52.92	+	
		-	-	132kV Motanga - Rangia Fdr.	50.16	+	
		-	-	220kV Tsirang - Jigmeling	93.14	+	
		Total	64.53	Error at Station/Auxiliary Consumption/Losses	1.95		

Note: Load summary on July 15, 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	1,679.69	233.57	221.25	1,352.98	12.32
2	Eastern Grid	412.53	48.09	52.64	457.58	-4.55
	Total	2,092.22	281.66	273.89	1,810.56	7.77

Note: Load Summary on July 15, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	214.02	221.87	280.97
2	Eastern Grid	41.77	44.70	57.66
	National	255.79	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.
 - 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 16, 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	186.57	400kV THP - Siliguri Fdr- I	272.61	+	
		Unit- II	186.14	400kV THP - Siliguri Fdr- II	273.81	+	
		Unit- III	187.77	400kV THP - Siliguri Fdr- IV	273.04	+	
		Unit- IV	187.72	400kV THP - Malbase Fdr- III	293.85	+	
		Unit- V	187.34	400kV Malbase - Siliguri	251.69	+	
		Unit- VI	186.05	-	-	-	
		Total	1,121.59	Error at Station/Auxiliary Consumption/Losses	8.28		
2	720MW MHP	Unit-I	181.60	400kV MHP - Jigmeling Fdr - I	174.90	+	
		Unit-II	168.40	400kV MHP - Jigmeling Fdr - II	174.90	+	
		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	350.00	Error at Station/Auxiliary Consumption/Losses	0.20		
3	336MW CHP	Unit- I	91.80	220kV CHP - Birpara Fdr- I	122.40	+	
		Unit- II	91.30	220kV CHP - Birpara Fdr- II	122.37	+	
		Unit- III	91.51	220kV CHP - Malbase Fdr- III	182.63	+	
		Unit- IV	91.58	220kV CHP - Semtokha Fdr- IV	-71.17	-	
		-	-	220kV Malbase - Birpara Fdr.	61.17	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.44	+	
		-	-	66kV CHP - Gedu Fdr.	8.96	+	
		-	-	3x3MVA, 66/11kV TFR	0.89	+	
Total	366.19	Error at Station/Auxiliary Consumption/Losses	0.55				
4	24MW BHP (U/S)	Unit- I	11.83	220kV BHP - Semtokha Fdr.	92.43	+	
		Unit- II	11.83	66kV BHP - Lobeyasa Fdr.	17.14	+	
		Total	23.66	220kV BHP - Tsirang Fdr.	-44.41	-	
	40MW BHP (L/S)	Unit- I	20.54	5MVA, 66/11kV TFR	0.80	+	
		Unit- II	20.78	30MVA ICT, 220/66kV			
		Total	41.32	Error at Station/Auxiliary Consumption/Losses	-0.98		
5	126MW DHPC	Unit-I	63.56	220kV DHPC - Tsirang Fdr.	126.28	+	
		Unit-II	63.42	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	126.98	Error at Station/Auxiliary Consumption/Losses	0.70		
6	60MW KHP	Unit- I	16.17	132kV KHP - Nangkhor Fdr- I	61.21	+	Note: Motanga Substation is bypassed through ERS tower.
		Unit-II	16.71	132kV KHP - Kilikhar Fdr- II	3.18	+	
		Unit- III	16.13	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.09	132kV Gelephu - Salakati Fdr.	51.81	+	
		-	-	132kV Motanga - Rangia Fdr.	42.07	+	
		-	-	220kV Tsirang - Jigmeling	78.42	+	
		Total	65.10	Error at Station/Auxiliary Consumption/Losses	0.31		

Note: Load summary on July 16, 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	1,679.74	224.23	215.68	1,377.09	8.55
2	Eastern Grid	415.10	49.84	49.33	443.68	0.51
	Total	2,094.84	274.07	265.01	1,820.77	9.06

Note: Load Summary on July 16, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	216.58	238.68	280.97
2	Eastern Grid	32.21	43.10	57.66
	National	248.79	281.78	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:
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