

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 12, 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	187.71	400kV THP - Siliguri Fdr- I	260.97	+	
		Unit- II	184.89	400kV THP - Siliguri Fdr- II	260.67	+	
		Unit- III	186.73	400kV THP - Siliguri Fdr- IV	260.71	+	
		Unit- IV	187.01	400kV THP - Malbase Fdr- III	329.48	+	
		Unit- V	187.99	400kV Malbase - Siliguri	230.37	+	
		Unit- VI	186.44	-	-	-	
		Total	1,120.77	Error at Station/Auxiliary Consumption/Losses	8.94		
2	720MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Fdr - I	0.00	+	Unit I & II tripped due to tripping of 400kV JLG-ALI II
		Unit-II	0.00	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	0.00		
		-	-	(Local Load)	0.00		
		Total	0.00	Error at Station/Auxiliary Consumption/Losses	0.00		
2	336MW CHP	Unit- I	91.67	220kV CHP - Birpara Fdr- I	87.27	+	Unit IV under shutdown
		Unit- II	90.63	220kV CHP - Birpara Fdr- II	87.18	+	
		Unit- III	91.51	220kV CHP - Malbase Fdr- III	107.65	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-18.15	-	
		-	-	220kV Malbase - Birpara Fdr.	61.81	+	
		-	-	66kV CHP - Chumdo Fdr.	3.03	-	
		-	-	66kV CHP - Gedu Fdr.	4.20	+	
		-	-	3x3MVA, 66/11kV TFR	1.17	+	
Total	273.81	Error at Station/Auxiliary Consumption/Losses	1.46				
3	24MW BHP (U/S)	Unit- I	10.84	220kV BHP - Semtokha Fdr.	48.55	+	
		Unit- II	10.84	66kV BHP - Lobeyasa Fdr.	17.31	+	
		Total	21.68	220kV BHP - Tsirang Fdr.	-5.51	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	19.85	30MVA ICT, 220/66kV			
Total	40.15	Error at Station/Auxiliary Consumption/Losses	0.85				
4	126MW DHPC	Unit-I	45.13	220kV DHPC - Tsirang Fdr.	89.73	+	
		Unit-II	45.08	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	90.21	Error at Station/Auxiliary Consumption/Losses	0.48		
5	60MW KHP	Unit- I	16.61	132kV KHP - Nangkor Fdr- I	56.41	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.60	132kV KHP - Kilikhar Fdr- II	9.10	+	
		Unit- III	16.56	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.71	132kV Gelephu - Salakati Fdr.	35.42	+	
		-	-	132kV Motanga - Rangia Fdr.	43.26	+	
		-	-	220kV Tsirang - Jigmeling	81.53	+	
		Total	66.48	Error at Station/Auxiliary Consumption/Losses	0.57		

Note: Load summary on August 12, 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	1,546.62	216.11	204.38	1,248.98	11.73
2	Eastern Grid	66.48	69.33	68.76	78.68	0.57
	Total	1,613.10	285.44	273.14	1,327.66	12.30

Note: Load Summary on August 12, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	247.05	247.05	259.44
2	Eastern Grid	52.93	52.93	55.98
	National	299.98	299.98	315.42

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:	August 13, 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	187.48	400kV THP - Siliguri Fdr- I	335.02	+	400kV Malbase-Siliguri Fdr under shutdown
		Unit- II	188.18	400kV THP - Siliguri Fdr- II	330.90	+	
		Unit- III	188.34	400kV THP - Siliguri Fdr- IV	324.30	+	
		Unit- IV	186.60	400kV THP - Malbase Fdr- III	115.00	+	
		Unit- V	186.45	400kV Malbase - Siliguri	0.00		
		Unit- VI	186.55	-	-	-	
		Total	1,123.60	Error at Station/Auxiliary Consumption/Losses	18.38		
2	720MW MHP	Unit-I	186.94	400kV MHP - Jigmeling Fdr - I	186.00	+	400kVMHP-Jigmeling Fdr.III AND Unit-II & IV under shutdown
		Unit-II	0.00	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	186.94	Error at Station/Auxiliary Consumption/Losses	0.94		
3	336MW CHP	Unit- I	90.71	220kV CHP - Birpara Fdr- I	68.87	+	Uni- IV under shutdown Unit-III took shutdown from 09:09hrs today till 17:00hrs
		Unit- II	91.38	220kV CHP - Birpara Fdr- II	69.13	+	
		Unit- III	46.80	220kV CHP - Malbase Fdr- III	128.39	+	
		Unit- IV	0.00	220kV CHP - Semtokha Fdr- IV	-44.18	-	
		-	-	220kV Malbase - Birpara Fdr.	62.70	+	
		-	-	66kV CHP - Chumdo Fdr.	-0.80	-	
		-	-	66kV CHP - Gedu Fdr.	6.24	+	
		-	-	3x3MVA, 66/11kV TFR	0.76	+	
Total	228.89	Error at Station/Auxiliary Consumption/Losses	0.48				
4	24MW BHP (U/S)	Unit- I	10.66	220kV BHP - Semtokha Fdr.	63.94	+	
		Unit- II	10.66	66kV BHP - Lobeyasa Fdr.	15.00	+	
		Total	21.32	220kV BHP - Tsirang Fdr.	-19.14	-	
	40MW BHP (L/S)	Unit- I	20.30	5MVA, 66/11kV TFR	0.52	+	
		Unit- II	19.70	30MVA ICT, 220/66kV			
		Total	40.00	Error at Station/Auxiliary Consumption/Losses	1.00		
5	126MW DHPC	Unit-I	45.39	220kV DHPC - Tsirang Fdr.	92.14	+	
		Unit-II	47.19	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	92.58	Error at Station/Auxiliary Consumption/Losses	0.44		
6	60MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	57.14	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	9.08	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	42.73	+	
		-	-	132kV Motanga - Rangia Fdr.	54.50	+	
		-	-	220kV Tsirang - Jigmeling	70.70	+	
		Total	66.00	Error at Station/Auxiliary Consumption/Losses	-0.72		

Note: Load summary on August 13, 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	1,506.39	244.77	224.47	1,190.92	20.30
2	Eastern Grid	252.94	40.41	40.19	283.23	0.22
	Total	1,759.33	285.18	264.66	1,474.15	20.52

Note: Load Summary on August 13, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	227.41	248.30	259.44
2	Eastern Grid	39.60	52.94	55.98
	National	267.01	301.24	315.42

NOTES: KHP LOADS 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.
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