

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date: August 29, 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	187.66	400kV THP - Siliguri Fdr- I	250.43	+	
		Unit- II	186.57	400kV THP - Siliguri Fdr- II	249.01	+	
		Unit- III	188.10	400kV THP - Siliguri Fdr- IV	243.07	+	
		Unit- IV	186.29	400kV THP - Malbase Fdr- III	361.38	+	
		Unit- V	186.73	400kV Malbase - Siliguri	211.33	+	
		Unit- VI	186.36	-	-	-	
		Total	1,121.71	Error at Station/Auxiliary Consumption/Losses	17.82		
2	720MW MHP	Unit-I	190.40	400kV MHP - Jigmeling Fdr - I	192.50	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	189.20	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.50	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	382.90	Error at Station/Auxiliary Consumption/Losses	1.20		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	76.02	+	Unit-I tripped since 23/08/2019.
		Unit- II	91.43	220kV CHP - Birpara Fdr- II	75.78	+	
		Unit- III	91.39	220kV CHP - Malbase Fdr- III	90.54	+	
		Unit- IV	91.59	220kV CHP - Semtokha Fdr- IV	9.72	+	
		-	-	220kV Malbase - Birpara Fdr.	55.55	+	
		-	-	66kV CHP - Chumdo Fdr.	15.61	+	
		-	-	66kV CHP - Gedu Fdr.	4.56	+	
		-	-	3x3MVA, 66/11kV TFR	1.37	+	
Total	274.41	Error at Station/Auxiliary Consumption/Losses	0.81				
3	24MW BHP (U/S)	Unit- I	7.51	220kV BHP - Semtokha Fdr.	16.20	+	
		Unit- II	7.51	66kV BHP - Lobeyasa Fdr.	14.54	+	
		Total	15.02	220kV BHP - Tsirang Fdr.	12.57	+	
	40MW BHP (L/S)	Unit- I	16.59	5MVA, 66/11kV TFR	0.73	+	
		Unit- II	14.36	30MVA ICT, 220/66kV			
Total	30.95	Error at Station/Auxiliary Consumption/Losses	1.93				
4	126MW DHPC	Unit-I	31.34	220kV DHPC - Tsirang Fdr.	61.09	+	
		Unit-II	30.40	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	61.74	Error at Station/Auxiliary Consumption/Losses	0.65		
5	60MW KHP	Unit- I	16.38	132kV KHP - Nangkor Fdr- I	56.17	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.63	132kV KHP - Kilikhar Fdr- II	8.85	+	
		Unit- III	16.41	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.46	132kV Gelephu - Salakati Fdr.	29.66	+	
		-	-	132kV Motanga - Rangia Fdr.	39.68	+	
		-	-	220kV Tsirang - Jigmeling	71.36	+	
		Total	65.88	Error at Station/Auxiliary Consumption/Losses	0.36		

Note: Load summary on August 29, 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	1,503.83	271.28	250.07	1,161.19	21.21
2	Eastern Grid	448.78	69.10	67.54	451.04	1.56
	Total	1,952.61	340.38	317.61	1,612.23	22.77

Note: Load Summary on August 29, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	338.95	338.95	259.44
2	Eastern Grid	47.43	47.43	55.98
	National	386.38	386.38	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 30, 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	187.24	400kV THP - Siliguri Fdr- I	223.81	+	
		Unit- II	185.26	400kV THP - Siliguri Fdr- II	221.79	+	
		Unit- III	186.38	400kV THP - Siliguri Fdr- IV	215.93	+	
		Unit- IV	119.69	400kV THP - Malbase Fdr- III	287.61	+	
		Unit- V	99.92	400kV Malbase - Siliguri	193.21	+	
		Unit- VI	185.88	-	-	-	
		Total	964.37	Error at Station/Auxiliary Consumption/Losses	15.23		
2	720MW MHP	Unit-I	190.60	400kV MHP - Jigmeling Fdr - I	192.30	+	Unit- II & III under shutdown
		Unit-II	0.00	400kV MHP - Jigmeling Fdr - II	188.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	192.40	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	383.00	Error at Station/Auxiliary Consumption/Losses	2.60		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	77.71	+	CHP Unit-I under breakdown.
		Unit- II	91.43	220kV CHP - Birpara Fdr- II	77.68	+	
		Unit- III	91.44	220kV CHP - Malbase Fdr- III	118.47	+	
		Unit- IV	91.54	220kV CHP - Semtokha Fdr- IV	-15.27	-	
		-	-	220kV Malbase - Birpara Fdr.	36.10	+	
		-	-	66kV CHP - Chumdo Fdr.	9.41	+	
		-	-	66kV CHP - Gedu Fdr.	5.23	+	
		Total	274.41	Error at Station/Auxiliary Consumption/Losses	0.36		
4	24MW BHP (U/S)	Unit- I	7.39	220kV BHP - Semtokha Fdr.	29.94	+	
		Unit- II	7.39	66kV BHP - Lobeyasa Fdr.	11.65	+	
		Total	14.78	220kV BHP - Tsirang Fdr.	1.94	+	
	40MW BHP (L/S)	Unit- I	16.59	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	14.11	30MVA ICT, 220/66kV			
		Total	30.70	Error at Station/Auxiliary Consumption/Losses	1.57		
5	126MW DHPC	Unit-I	25.31	220kV DHPC - Tsirang Fdr.	59.97	+	
		Unit-II	35.09	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	60.40	Error at Station/Auxiliary Consumption/Losses	0.43		
6	60MW KHP	Unit- I	16.40	132kV KHP - Nangkhor Fdr- I	61.69	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.52	132kV KHP - Kilikhar Fdr- II	3.46	+	
		Unit- III	16.46	5MVA, 132/11kV TFR	0.40	+	
		Unit- IV	16.30	132kV Gelephu - Salakati Fdr.	26.55	+	
		-	-	132kV Motanga - Rangia Fdr.	41.77	+	
		-	-	220kV Tsirang - Jigmeling	59.90	+	
		Total	65.68	Error at Station/Auxiliary Consumption/Losses	0.13		

Note: Load summary on August 30, 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	1,344.66	238.53	220.94	1,046.23	17.59
2	Eastern Grid	448.68	59.86	57.13	448.72	2.73
	Total	1,793.34	298.39	278.07	1,494.95	20.32

Note: Load Summary on August 30, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	224.50	244.85	259.44
2	Eastern Grid	30.37	47.35	55.98
	National	254.87	292.20	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.