

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	September 6, 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	188.10	400kV THP - Siliguri Fdr- I	253.76	+	
		Unit- II	185.28	400kV THP - Siliguri Fdr- II	253.30	+	
		Unit- III	186.76	400kV THP - Siliguri Fdr- IV	245.41	+	
		Unit- IV	187.30	400kV THP - Malbase Fdr- III	350.62	+	
		Unit- V	186.62	400kV Malbase - Siliguri	216.86	+	
		Unit- VI	186.41	-	-	-	
		Total	1,120.47	Error at Station/Auxiliary Consumption/Losses	17.38		
2	720MW MHP	Unit-I	171.10	400kV MHP - Jigmeling Fdr - I	237.10	+	Unit-III under shutdown
		Unit-II	188.90	400kV MHP - Jigmeling Fdr - II	237.10	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	116.40	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	476.40	Error at Station/Auxiliary Consumption/Losses	2.20		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	86.80	+	CHP Unit-I under breakdown..
		Unit- II	92.34	220kV CHP - Birpara Fdr- II	86.47	+	
		Unit- III	91.51	220kV CHP - Malbase Fdr- III	100.93	+	
		Unit- IV	91.41	220kV CHP - Semtokha Fdr- IV	-13.66	-	
		-	-	220kV Malbase - Birpara Fdr.	65.00	+	
		-	-	66kV CHP - Chumdo Fdr.	4.94	+	
		-	-	66kV CHP - Gedu Fdr.	7.26	+	
		-	-	3x3MVA, 66/11kV TFR	1.19	+	
Total	275.26	Error at Station/Auxiliary Consumption/Losses	1.33				
3	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	45.24	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	19.54	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-0.70	-	
	40MW BHP (L/S)	Unit- I	21.01	5MVA, 66/11kV TFR	0.64	+	
		Unit- II	20.18	30MVA ICT, 220/66kV			
Total	41.19	Error at Station/Auxiliary Consumption/Losses	0.07				
4	126MW DHPC	Unit-I	30.29	220kV DHPC - Tsirang Fdr.	89.81	+	
		Unit-II	60.01	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	90.30	Error at Station/Auxiliary Consumption/Losses	0.49		
5	60MW KHP	Unit- I	16.60	132kV KHP - Nangkor Fdr- I	57.26	+	Motanga Substation is bypassed through ERS tower
		Unit-II	16.69	132kV KHP - Kilikhar Fdr- II	8.41	+	
		Unit- III	16.75	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.42	132kV Gelephu - Salakati Fdr.	37.31	+	
		-	-	132kV Motanga - Rangia Fdr.	55.11	+	
		-	-	220kV Tsirang - Jigmeling	87.35	+	
		Total	66.46	Error at Station/Auxiliary Consumption/Losses	0.29		

Note: Load summary on September 06, 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	1,550.82	255.87	236.60	1,207.60	19.27
2	Eastern Grid	542.86	63.59	61.10	566.62	2.49
	Total	2,093.68	319.46	297.70	1,774.22	21.76

Note: Load Summary on September 06, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	235.62	235.62	256.15
2	Eastern Grid	57.74	57.74	57.74
	National	293.36	293.36	313.89

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:	September 7, 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	187.67	400kV THP - Siliguri Fdr- I	266.34	+	
		Unit- II	188.21	400kV THP - Siliguri Fdr- II	264.21	+	
		Unit- III	187.97	400kV THP - Siliguri Fdr- IV	257.48	+	
		Unit- IV	186.65	400kV THP - Malbase Fdr- III	317.87	+	
		Unit- V	187.52	400kV Malbase - Siliguri	238.47	+	
		Unit- VI	186.21	-	-	-	
		Total	1,124.23	Error at Station/Auxiliary Consumption/Losses	18.33		
2	720MW MHP	Unit-I	179.70	400kV MHP - Jigmeling Fdr - I	274.90	+	Unit- III under shutdown
		Unit-II	189.50	400kV MHP - Jigmeling Fdr - II	277.10	+	
		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	561.60	Error at Station/Auxiliary Consumption/Losses	9.60		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	93.24	+	CHP Unit-I under breakdown.
		Unit- II	91.06	220kV CHP - Birpara Fdr- II	93.14	+	
		Unit- III	91.36	220kV CHP - Malbase Fdr- III	133.31	+	
		Unit- IV	91.48	220kV CHP - Semtokha Fdr- IV	-55.58	-	
		-	-	220kV Malbase - Birpara Fdr.	49.65	+	
		-	-	66kV CHP - Chumdo Fdr.	0.59	+	
		-	-	66kV CHP - Gedu Fdr.	7.18	+	
		-	-	3x3MVA, 66/11kV TFR	0.80	+	
Total	273.90	Error at Station/Auxiliary Consumption/Losses	1.22				
4	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	75.92	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	16.74	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-27.28	-	
	40MW BHP (L/S)	Unit- I	20.98	5MVA, 66/11kV TFR	0.56	+	
		Unit- II	20.18	30MVA ICT, 220/66kV			
		Total	41.16	Error at Station/Auxiliary Consumption/Losses	-1.18		
5	126MW DHPC	Unit-I	40.41	220kV DHPC - Tsirang Fdr.	103.12	+	
		Unit-II	63.19	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	103.60	Error at Station/Auxiliary Consumption/Losses	0.48		
6	60MW KHP	Unit- I	16.37	132kV KHP - Nangkor Fdr- I	61.43	+	Motanga Substation is bypassed through ERS tower.
		Unit-II	16.51	132kV KHP - Kilikhar Fdr- II	3.48	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.19	132kV Gelephu - Salakati Fdr.	43.63	+	
		-	-	132kV Motanga - Rangia Fdr.	46.91	+	
		-	-	220kV Tsirang - Jigmeling	72.96	+	
		Total	65.57	Error at Station/Auxiliary Consumption/Losses	0.16		

Note: Load summary on September 07, 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	1,566.49	231.00	212.15	1,262.53	18.85
2	Eastern Grid	627.17	57.59	47.83	642.54	9.76
	Total	2,193.66	288.59	259.98	1,905.07	28.61

Note: Load Summary on September 07, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	199.22	223.02	256.15
2	Eastern Grid	43.36	52.05	57.74
	National	242.58	275.07	313.89

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.