



Monthly Power Supply Position Report of North Eastern Region for AUG,2020

Power System Operation Corporation Limited

(A Government of India Enterprise)

North Eastern Regional Load Despatch Centre

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Regional Energy Generation

Name of Constituents	Hydro		Coal / Oil / Solar		Gas Based (Open cycle)		Gas Based (Com.cycle)		Total	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
A: State Sector										
ARUNACHAL PRADESH	0	0	0	0	0	0	0	0	0	0
ASSAM	38.523	38.137	0.51	0.505	37.971	37.592	36.371	35.87	113.375	112.104
MEGHALAYA	167.614	165.939	0	0	0	0	0	0	167.614	165.939
MIZORAM	15.321	15.139	0	0	0	0	0	0	15.321	15.139
NAGALAND	7.359	7.285	0	0	0	0	0	0	7.359	7.285
TRIPURA	0	0	0.502	0.497	42.251	41.828	28.085	27.102	70.838	69.427
Total (State Sector)									374.507	369.894
B: Central Sector										
NEEPCO										
AGBPP	0	0	0	0	0	0	90.492	88.003	90.492	88.003
AGTCCPP	0	0	0	0	0	0	59.097	57.265	59.097	57.265
DOYANG	36.93	36.487	0	0	0	0	0	0	36.93	36.487
KAMENG HEP	209.203	206.692	0	0	0	0	0	0	209.203	206.692
KHANDONG	0	0	0	0	0	0	0	0	0	0
KOPILI	0	0	0	0	0	0	0	0	0	0
KOPILI-2	0	0	0	0	0	0	0	0	0	0
MONARCHAK(SOLAR)	0	0	0.502	0.497	0	0	0	0	0.502	0.497
MONARCHAK(THERMAL)	0	0	0	0	0	0	28.085	27.102	28.085	27.102
PARE	73.431	72.55	0	0	0	0	0	0	73.431	72.55
RANGANADI	189.213	187.321	0	0	0	0	0	0	189.213	187.321
TUIRIAL	14.258	14.087	0	0	0	0	0	0	14.258	14.087
NHPC										
LOKTAK	78.629	77.685	0	0	0	0	0	0	78.629	77.685
NTPC										
BGTPP	0	0	201.297	183.18027	0	0	0	0	201.297	183.18027
OTPCL										
PALATANA	0	0	0	0	0	0	465.742	450.372	465.742	450.372
Total (Central Sector)									1446.879	1401.2413
Total NER	830.481	821.322	202.811	184.67927	80.222	79.42	707.872	685.714	1821.386	1771.13527

Inter Regional Exchange in MU :

	Import	Export
NER to ER	456.26	0
NER to NR	0	471.69
		Net_Import(MU)
Net export by NER		471.69
Net import by NER		456.26

Estimation of Energy Requirement (MU)

Average Frequency (Hz)	49.999						
Name of Constituents	Generation	Energy drawal from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement
		Schedule	Drawal				
ARUNACHAL PRADESH	0	56.03	58.95	58.95	0.002	0.24	59.19
ASSAM	112.09	939.65	948.33	1060.42	0.032	35	1095.42
MANIPUR	0	76.86	82.79	82.79	0.002	0.33	83.12
MEGHALAYA	165.94	4.3	-2.48	163.46	0.005	0	163.46
MIZORAM	15.14	36.63	42.37	57.51	0.002	0.26	57.77
NAGALAND	7.28	74.15	63.56	70.84	0.002	0.24	71.08
TRIPURA (including BANGLADESH)	69.43	179.81	177.79	247.22	0.007	0.14	247.36
Total (inluding Bangladesh)	369.88	1367.43	1371.31	1741.19	0.052	36.21	1777.4

Freq. Correction = Consumption * 0.03 * (50 - Frequency)

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Estimation of Peak Demand (MW)

Constituents	Maximum Demand Met (in MW)	Date & Time of Max Demand Met	Frequency at Max Demand Met Time (in Hz)	Frequency Correction #	Load Shedding at Max Demand Met Time (in MW)	Estimated Peak Demand (in MW) at 50 Hz
ARUNACHAL PRADESH	127.51	At 19:00 Hrs on 30.08.20	50.019	-0.077	29.24	156.67
ASSAM	1942.8	At 21:00 Hrs on 25.08.20	50.034	-1.749	0	1941.05
MANIPUR	200	At 18:43 Hrs on 03.08.20	49.963	0.24	0	200.24
MEGHALAYA	320.03	At 19:00 Hrs on 26.08.20	49.882	1.152	0	321.18
MIZORAM	100.5	At 18:30 Hrs on 01.08.20	49.764	0.724	0	101.22
NAGALAND	148.6	At 18:15 Hrs on 13.08.20	49.921	0.357	0	148.96
TRIPURA (EXCLUDING BANGLADESH)	301.3	At 19:00 Hrs on 13.08.20	50.048	-0.452	0	300.85
TRIPURA (INCLUDING BANGLADESH)	478.1	At 19:00 Hrs on 13.08.20	50.048	-0.717	0	477.38
NER (EXCLUDING BANGLADESH)	3069	At 20:35 Hrs on 05.08.20	49.941	5.524	29	3103.52
NER (INCLUDING BANGLADESH)	3197	At 20:35 Hrs on 05.08.20	49.941	5.755	29	3231.75

Freq. Correction = Demand Met * 0.03 * (50 - Frequency)

Requirement Vs Availability in the Region

Constituents	Energy requirement (in MU) at 50 Hz				Peak Requirement (in MW) at 50 Hz			
	Availability & Load Shedding at prevailing frequency							
	Requirement	Availability	Shortfall	Shortfall (%)	Demand	Demand Met	Shortfall	Shortfall (%)
Arunachal Pradesh	59.19	58.95	0.24	0.41	157	128	29	18.65
Assam	1095.42	1060.42	35	3.2	1943	1943	0	0
Manipur	83.12	82.79	0.33	0.4	200	200	0	0
Meghalaya	163.46	163.46	0	0	320	320	0	0
Mizoram	57.77	57.51	0.26	0.45	101	101	0	0
Nagaland	71.08	70.84	0.24	0.34	149	149	0	0
Tripura (excluding Bangladesh)	149.69	149.55	0.14	0.06	301	301	0	0
Tripura (including Bangladesh)	247.31	247.17	0.14	0.06	478	478	0	0
NER (excluding Bangladesh)	1679.73	1643.52	36.21	2.16	3098	3069	29	0.94
NER (including Bangladesh)	1777.35	1741.14	36.21	2.04	3226	3197	29	0.9

Monthly Non Conventional and Conventional Generation of North Eastern Region

NON CONVENTIONAL

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
ASSAM						
1	Myntreng	1.5*2	3	Hydro	1.922	1.902
2	Suryatap	5*1	5	Solar	0.51	0.505
MEGHALAYA						
1	Sonapani	1.5*1	1.5	Hydro	0.644	0.638
2	Umiam Stage II	10*2	20	Hydro	11.906	11.787
3	Umtru	2.80*4	11.2	Hydro	0	0
MIZORAM						
1	Serlui B	3*4	12	Hydro	1.063	1.052
NAGALAND						
1	Likimro	8*3	24	Hydro	7.359	7.285
TRIPURA						
1	Gumti	5*3	15	Hydro	0	0
NEEPCO						
1	Monarchak Solar	5*1	5	Solar	0.502	0.497
TOTAL					23.906	23.666

CONVENTIONAL

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
ARUNACHAL PRADESH						
1	DIKSHI	8*3	24	Hydro	0	0
ASSAM						
1	HHPCPL		0	Hydro	1.035	1.025
2	Karbi Langpi	50*2	100	Hydro	35.566	35.21
3	LRPP	10*7	70	Open Cycle Gas	37.971	37.592
4	LTPS	20*3 + 37.2*1	97.2	Gas	24.753	24.601
5	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	11.618	11.269
MEGHALAYA						
1	Lakroh	1.5*1	1.5	Hydro	0.785	0.778
2	Myntdu Leshka	42*3	126	Hydro	61.692	61.075
3	New Umtru	20*2	40	Hydro	29.596	29.3
4	Umiam Stage I	9*4	36	Hydro	23.287	23.054
5	Umiam Stage III	30*2	60	Hydro	17.924	17.745
6	Umiam Stage IV	30*2	60	Hydro	21.78	21.562
7	Adhunik	25*1	25	Coal	0	0
8	MPL	8*1+43.15*1	51.15	Coal	0	0
9	Maithan Alloys Ltd	15*1	15	Coal	0	0
10	Shyam Century	13.8*1	13.8	Coal	0	0

MIZORAM						
1	Bairabi	5.73*4+1*17.35	40.27	Oil	0	0
TRIPURA						
1	Baramura	5*2 + 7*1 + 21*2	59	Open Cycle Gas	14.66	14.513
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	27.591	27.315
NEEPCO						
1	DOYANG	25*3	75	Hydro	36.93	36.487
2	KAMENG	150*2	300	Hydro	209.203	206.692
3	KHANDONG	25*2	50	Hydro	0	0
4	KOPILI	50*4	200	Hydro	0	0
5	KOPILI STG II	25*1	25	Hydro	0	0
6	PARE	55*2	110	Hydro	73.431	72.55
7	RANGANADI	135*3	405	Hydro	189.213	187.321
8	TURIAL	30*2	60	Hydro	14.258	14.087
9	AGBPP	33.5*6 + 30*3	291	Gas	90.492	88.003
10	AGTCCPP	21*4 + 25.5*2	135	Gas	59.097	57.265
11	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	28.085	27.102
NHPC						
1	LOKTAK	35*3	105	Hydro	78.629	77.685
OTPCL						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	465.742	450.372
NTPC						
1	BGTPP	250*3	750	Coal	241.716	219.962
TOTAL					1795.054	1742.565

Inter-Country Power Exchange**BHUTAN****IMPORT**

1	132KV-RANGIA-DEOTHANG	36.1
2	132KV-SALAKATI-GELEPHU	39.17
Total		75.27

EXPORT

3	132KV-RANGIA-DEOTHANG	0
4	132KV-SALAKATI-GELEPHU	0
Total		0
Net exchange with bhutan ('-' import / '+' export)		-75.27

BANGLADESH

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	97.620
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	176.800

MYANMAR

1	Total Drawal by Myanmar from Manipur (India) in MU	0.854
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.280