



Monthly Power Supply Position Report of North Eastern Region for MAR,2022

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	4.137	4.095	0	0	0	0	0	0	4.137	4.095
ASSAM	12.758	12.629	11.585	11.47	39.815	39.416	182.594	180.509	246.669585	244.024
MEGHALAYA	36.969	36.6	0	0	0	0	0	0	36.969	36.6
MIZORAM	14.619	14.444	0	0	0	0	0	0	14.619	14.444
NAGALAND	2.765	2.738	0	0	0	0	0	0	2.765	2.738
TRIPURA	1.289	1.276	0.69	0.683	53.265	52.732	65.904	63.597	121.148	118.288
Total (State Sector)									426.30758	420.189
B: Central Sector										
NEEPCO										
AGBPP	0	0	0	0	0	0	154.876	150.617	154.876	150.617
AGTCCPP	0	0	0	0	0	0	59.525	57.679	59.525	57.679
DOYANG	3.181	3.142	0	0	0	0	0	0	3.181	3.142
KAMENG HEP	153.279	151.44	0	0	0	0	0	0	153.279	151.44
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
PARE	15.838	15.648	0	0	0	0	0	0	15.838	15.648
RANGANADI	51.337	50.824	0	0	0	0	0	0	51.337	50.824
NHPC										
LOKTAK	20.443	20.198	0	0	0	0	0	0	20.443	20.198
NTPC										
BGTPP	0	0	429.631	390.964	0	0	0	0	429.631	390.964
OTPCL										
PALATANA	0	0	0	0	0	0	435.903	421.518	435.903	421.518
Total (Central Sector)									1324.013	1262.03
Total NER	316.615	313.034	441.906	403.117	93.08	92.148	898.802	873.92	1750.32058	1682.219

Inter Regional Exchange in MU :

	Import	Export
NER to ER	113.51	178.05
NER to NR	169.23	111.34
	Net_Import(MU)	
Net export by NER		289.39
Net import by NER		282.74

Estimation of Energy Requirement (MU)

Average Frequency (Hz)	49.977						
Name of Constituents	Generation	Energy drawal from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement
		Schedule	Drawal				
ARUNACHAL PRADESH	4.1	78.34	68.81	72.91	0.05	0	72.91
ASSAM	244.024	702	702.46	946.484	0.56	0.28	811.66
MANIPUR	0	84.9	82.92	82.92	0.057	0	82.92
MEGHALAYA	36.6	164.59	164.34	200.94	0.139	0	200.94
MIZORAM	14.44	45.84	38.43	52.87	0.036	0	52.87
NAGALAND	2.74	68.69	72.08	74.82	0.052	0	74.82
TRIPURA (including BANGLADESH)	118.29	99.07	91.57	209.86	0.145	0.01	209.87
Total (inluding Bangladesh)	285.09	1243.43	1220.61	1505.7	1.039	0.29	1505.99

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	143.47	At 19:45 Hrs on 02.03.22	49.998	0	0	143.47
ASSAM	1854.955	At 19:00 Hrs on 23.03.22	49.818	10.017	45.61	1910.585
MANIPUR	225.18	At 18:06 Hrs on 03.03.22	49.985	0.068	0	225.25
MEGHALAYA	368.622	At 19:00 Hrs on 08.03.22	49.857	1.548	0	370.172
MIZORAM	123.67	At 17:45 Hrs on 01.03.22	50.053	-0.186	0	123.48
NAGALAND	149.3	At 17:30 Hrs on 03.03.22	50.04	-0.179	0	149.12
TRIPURA (EXCLUDING BANGLADESH)	285.3	At 18:37 Hrs on 23.03.22	49.932	0.599	0	285.9
TRIPURA (INCLUDING BANGLADESH)	465.14	At 18:14 Hrs on 23.03.22	50.043	-0.558	0	464.58
NER (EXCLUDING BANGLADESH)	3079	At 18:34 Hrs on 23.03.22	50.027	-2.771	0	3076.23
NER (INCLUDING BANGLADESH)	3236	At 18:34 Hrs on 23.03.22	50.027	-2.912	0	3233.09

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	72.91	72.91	0	0	143	143	0	0
Assam	811.66	811.38	0.28	0.03	1901	1855	46	2.4
Manipur	82.92	82.92	0	0	225	225	0	0
Meghalaya	200.94	200.94	0	0	369	369	0	0
Mizoram	52.87	52.87	0	0	124	124	0	0
Nagaland	74.82	74.82	0	0	149	149	0	0
Tripura (excluding Bangladesh)	124.08	124.07	0.01	0	285	285	0	0
Tripura (including Bangladesh)	209.802	209.792	0.01	0	465	465	0	0
NER (excluding Bangladesh)	1420.2	1419.91	0.29	0.02	3079	3079	0	0
NER (including Bangladesh)	1505.922	1505.632	0.29	0.02	3236	3236	0	0

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
ARUNACHAL PRADESH						
1	DIKSHI	8*3	24	Hydro	4.137	4.095
ASSAM						
1	CHAMPAVATI / HHPCPL	2*2	4	Hydro	0.414	0.410
2	Myntreng	1.5*2	3	Hydro	2.121	2.099
3	Suryatap	5*1	5	Solar	0.561	0.556
4	Azure Solar	25*1	25	Solar	4.203	4.161
5	Azure Solar_Boko	25*1	25	Solar	4.336	4.293
6	Azure Solar_Nagaon	15*1	15	Solar	2.229	2.207
7	Maheshwari Mining Solar	25*1	25	Solar	0.255	0.253
MEGHALAYA						
1	Sonapani	1.5*1	1.5	Hydro	0.2	0.198
2	Umiam Stage II	10*2	20	Hydro	3.572	3.536
3	Umtru	2.80*4	11.2	Hydro	0	0
MIZORAM						
1	Serlui B	3*4	12	Hydro	0.044	0.044
NAGALAND						
1	Likimro	8*3	24	Hydro	2.765	2.738
TRIPURA						
1	Gumti	5*3	15	Hydro	1.289	1.276
2	Monarchak Solar	5*1	5	Solar	0.69	0.683
TOTAL					26.816	26.548

CONVENTIONAL

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
ASSAM						
1	Karbi Langpi	50*2	100	Hydro	10.223	10.121
2	NRPP	63*1 + 37*1	100	Combined Cycle Gas	129.65	128.352
3	LRPP	10*7	70	Open Cycle Gas	39.815	39.416
4	LTPS	20*3 + 37.2*1	97.2	Gas	36.779	36.554
5	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	16.087	15.604

MEGHALAYA						
1	Lakroh	1.5*1	1.5	Hydro	0	0
2	Myntdu Leshka	42*3	126	Hydro	7.648	7.572
3	New Umtru	20*2	40	Hydro	5.849	5.79
4	Umiam Stage I	9*4	36	Hydro	6.678	6.612
5	Umiam Stage III	30*2	60	Hydro	6.498	6.433
6	Umiam Stage IV	30*2	60	Hydro	6.524	6.459
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
2	TURIAL	30*2	60	Hydro	14.575	14.4
TRIPURA						
1	Baramura	5*2 + 7*1 + 21*2	59	Open Cycle Gas	29.285	28.992
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	23.98	23.74
3	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	65.904	63.597
NEEPCO						
1	DOYANG	25*3	75	Hydro	3.181	3.142
2	KAMENG	150*2	300	Hydro	153.279	151.44
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	15.838	15.648
7	RANGANADI	135*3	405	Hydro	51.337	50.824
8	AGBPP	33.5*6 + 30*3	291	Gas	154.876	150.617
9	AGTCCPP	21*4 + 25.5*2	135	Gas	59.525	57.679
NHPC						
1	LOKTAK	35*3	105	Hydro	20.443	20.198
OTPCL						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	435.903	421.518
NTPC						
1	BGTPP	250*3	750	Coal	429.631	390.964
TOTAL					1723.506	1655.67152

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

1	132KV-RANGIA-DEOTHANG	6.75
2	132KV-SALAKATI-GELEPHU	1.53
Total		8.28

EXPORT

3	132KV-RANGIA-DEOTHANG	0.34
4	132KV-SALAKATI-GELEPHU	3.07
Total		3.41
Net exchange with bhutan ('-' import / '+' export)		-4.87

BANGLADESH

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	85.722
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	185.690

MYANMAR

1	Total Drawal by Myanmar from Manipur (India) in MU	0.775
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.140