



Monthly Power Supply Position Report of North Eastern Region for APR,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	3.666	3.629	0	0	0	0	0	0	3.666	3.629
ASSAM	14.47	14.326	9.316	9.224	39.958	39.558	92.653	91.651	156.397	154.759
MEGHALAYA	73.673	72.935	0	0	0	0	0	0	73.673	72.935
MIZORAM	3.452	3.41	0	0	0	0	0	0	3.452	3.41
NAGALAND	3.029	2.998	0	0	0	0	0	0	3.029	2.998
TRIPURA	0.797	0.789	0.591	0.585	53.729	53.192	63.592	61.366	118.709	115.932
Total (State Sector)									358.92644	353.66293
B: Central Sector										
NEEPCO										
AGBPP	0	0	0	0	0	0	149.284	145.179	149.284	145.179
AGTCCPP	0	0	0	0	0	0	56.595	54.841	56.595	54.841
DOYANG	2.044	2.02	0	0	0	0	0	0	2.044	2.02
KAMENG HEP	34.939	34.52	0	0	0	0	0	0	34.939	34.52
KHANDONG	0	0	0	0	0	0	0	0	0	0
KOPI LI	0	0	0	0	0	0	0	0	0	0
KOPI LI-2	0	0	0	0	0	0	0	0	0	0
PARE	50.738	50.129	0	0	0	0	0	0	50.738	50.129
RANGANADI	145.87	144.411	0	0	0	0	0	0	145.87	144.411
NHPC										
LOKTAK	11.514	11.376	0	0	0	0	0	0	11.514	11.376
NTPC										
BGTPP	0	0	495.303	450.726	0	0	0	0	495.303	450.726
OTPCL										
PALATANA	0	0	0	0	0	0	411.212	397.642	411.212	397.642
Total (Central Sector)									1357.499	1290.844
Total NER	344.192	340.543	505.210056	460.534585	93.687	92.75	773.336383	750.679349	1716.42544	1644.50693

Inter Regional Exchange in MU :

	Import	Export
NER to ER	2.924	383.436
NER to NR	240.37	30.24
		Net_Import(MU)
Net export by NER		413.676
Net import by NER		243.294

Estimation of Energy Requirement (MU)

Average Frequency (Hz)	49.931						
Name of Constituents	Generation	Energy drawal from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement
		Schedule	Drawal				
ARUNACHAL PRADESH	3.63	68.45	62.65	66.28	0.137	0	66.28
ASSAM	107.2	631.43	621.1	728.3	1.508	4.73	733.03
MANIPUR	0	75.46	73.32	73.32	0.152	0.56	73.88
MEGHALAYA	72.93	96.75	93.71	166.64	0.345	1.74	168.38
MIZORAM	3.41	53.81	48.27	51.68	0.107	0	51.68
NAGALAND	3	60.88	63.56	66.56	0.138	0.47	67.03
TRIPURA (including BANGLADESH)	115.94	132.41	129.59	245.53	0.508	0.05	245.58
HVDC_BNC	0.000	0.731	0.579	0.579	0.040	0	0.579
Total (inluding Bangladesh)	306.110	1119.921	1092.779	1398.889	2.935	7.550	1406.439

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	132.82	At 19:00 Hrs on 21.04.22	50.023	-0.08	0	132.74
ASSAM	1758.77	At 20:00 Hrs on 21.04.22	50	0	37.5	1796.27
MANIPUR	202	At 18:18 Hrs on 01.04.22	50.074	-0.424	0	201.58
MEGHALAYA	359.006	At 19:00 Hrs on 08.04.22	50.077	-0.862	0	358.146
MIZORAM	118.04	At 18:30 Hrs on 25.04.22	50.05	-0.177	0	117.86
NAGALAND	137.9	At 17:00 Hrs on 29.04.22	50.044	-0.165	0	137.73
TRIPURA (EXCLUDING BANGLADESH)	316.35	At 19:03 Hrs on 29.04.22	49.958	0.38	0	316.73
TRIPURA (INCLUDING BANGLADESH)	472.13	At 18:52 Hrs on 25.04.22	49.984	0.283	0	472.41
HVDC_BNC	0.99	At 13:15 Hrs on 23.04.22	49.95	0.001	0	0.99
NER (EXCLUDING BANGLADESH)	2908	At 18:31 Hrs on 28.04.22	49.955	3.49	16	2927.49
NER (INCLUDING BANGLADESH)	3043.6826	At 18:33 Hrs on 25.04.22	50.045	-3.652	0	3040.0326

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	66.28	66.28	0	0	133	133	0	0
Assam	733.03	728.3	4.73	0.65	1796	1759	38	2.09
Manipur	73.88	73.32	0.56	0.76	202	202	0	0
Meghalaya	168.38	166.64	1.74	1.03	359	359	0	0
Mizoram	51.68	51.68	0	0	118	118	0	0
Nagaland	67.03	66.56	0.47	0.7	138	138	0	0
Tripura (excluding Bangladesh)	144.17	144.12	0.05	0.02	316	316	0	0
Tripura (including Bangladesh)	245.58	245.53	0.05	0.02	472	472	0	0
HVDC_BNC	0.579	0.579	0	0	0.99	0.99	0	0
NER (excluding Bangladesh)	1305.029	1297.479468	7.55	0.58	2924	2908	16	0.55
NER (including Bangladesh)	1406.439	1398.889	7.55	0.54	3044	3044	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 / HHPCL	2*2	4	Hydro	0.494	0.489
2	Myntreng	1.5*2	3	Hydro	1.929	1.91
3	Suryatap	5*1	5	Solar	0.369	0.366
4	Azure Solar	25*1	25	Solar	2.953	2.923
5	Azure Solar_Boko	25*1	25	Solar	3.559	3.524
6	Azure Solar_Nagaon	15*1	15	Solar	2.051	2.030
7	Maheshwari Mining Solar	10*1	25	Solar	0.384	0.380
MEGHALAYA						
1	Sonapani	1.5*1	1.5	Hydro	0.232	0.229
2	Uiam Stage II	10*2	20	Hydro	4.029	3.989
3	Umtru	2.80*4	11.2	Hydro	0	0
MIZORAM						
1	Serlui B	3*4	12	Hydro	0	0
NAGALAND						
1	Likimro	8*3	24	Hydro	3.029	2.998
TRIPURA						
1	Gumti	5*3	15	Hydro	0.797	0.789
2	Monarchak Solar	5*1	5	Solar	0.591	0.585
TOTAL					10.976	10.866

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	12.541	12.416
2	NRPP	63*1 + 37*1	100	Combined Cycle Gas	43.80	43.365
3	LRPP	10*7	70	Open Cycle Gas	39.958	39.558
4	LTPS	20*3 + 37.2*1	97.2	Gas	37.757	37.526
5	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	11.093	10.76
MEGHALAYA						
1	Lakroh		0	Hydro	0	0
2	Myntdu Leshka	42*3	126	Hydro	37.988	37.608
3	New Umtru	20*2	40	Hydro	6.973	6.903
4	Uiam Stage I	9*4	36	Hydro	7.462	7.387
5	Uiam Stage III	30*2	60	Hydro	9.217	9.125
6	Uiam Stage IV	30*2	60	Hydro	7.772	7.694
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	3.452	3.41
TRIPURA						
1	Baramura	5*2 + 7*1 + 21*2	59	Open Cycle Gas	28.388	28.104
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	25.341	25.088
3	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	63.592	61.366
NEEPCO						
1	DOYANG	25*3	75	Hydro	2.044	2.02
2	KAMENG	150*2	300	Hydro	34.939	34.52
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	50.738	50.129
7	RANGANADI	135*3	405	Hydro	145.87	144.411
8	AGBPP	33.5*6 + 30*3	291	Gas	149.284	145.179
9	AGTCCPP	21*4 + 25.5*2	135	Gas	56.595	54.841
NHPC						
1	LOKTAK	35*3	105	Hydro	11.514	11.376
OTPC						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	411.212	397.642
NTPC						
1	BGTPP	250*3	750	Coal	495.303	450.726
TOTAL					1692.836383	1621.154349

Inter-Country Power Exchange

BHUTAN

IMPORT

1	132KV-RANGIA-DEOTHANG	11.47
2	132KV-SALAKATI-GELEPHU	1.96
Total		13.43

EXPORT

3	132KV-RANGIA-DEOTHANG	0.49
4	132KV-SALAKATI-GELEPHU	2.42
Total		2.91
Net exchange with bhutan ('-' import / '+' export)		-10.52

BANGLADESH

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	101.392
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	181.380

MYANMAR

1	Total Drawal by Myanmar from Manipur (India) in MU	0.808
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.495