



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

Power System Operation Corporation Limited

(A Government of India Enterprise)

North Eastern Regional Load Despatch Centre

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Date of Issue	Revision No
02-06-2022	0

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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	4.76	4.712	0	0	0	0	0	0	4.76	4.712
ASSAM	38.464	38.464	16.813	16.645	43.416	42.982	97.923	96.837	196.615788	194.92752
MEGHALAYA	114.135	112.994	0	0	0	0	0	0	114.135	112.994
MIZORAM	2.818	2.785	0	0	0	0	0	0	2.818	2.785
NAGALAND	7.531	7.456	0	0	0	0	0	0	7.531	7.456
TRIPURA	0.903	0.894	0.531	0.526	51.893	51.375	64.792	62.524	118.119	115.319
Total (State Sector)									443.97879	438.19352
B: Central Sector										
NEEPCO										
AGBPP	0	0	0	0	0	0	170.297	165.614	170.297	165.614
AGTCCPP	0	0	0	0	0	0	76.97	74.584	76.97	74.584
DOYANG	13.676	13.512	0	0	0	0	0	0	13.676	13.512
KAMENG HEP	213.744	211.179	0	0	0	0	0	0	213.744	211.179
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	58.582	57.879	0	0	0	0	0	0	58.582	57.879
RANGANADI	162.37	160.746	0	0	0	0	0	0	162.37	160.746
NHPC										
LOKTAK	60.476	59.751	0	0	0	0	0	0	60.476	59.751
NTPC										
BGTPP	0	0	451.265	410.651	0	0	0	0	451.265	410.651
OTPCL										
PALATANA	0	0	0	0	0	0	361.398	349.472	361.398	349.472
Total (Central Sector)									1568.778	1503.388
Total NER	677.459	670.372	468.608848	427.82185	95.309	94.357	771.37994	749.030671	2012.75679	1941.58152

Inter Regional Exchange in MU :

	Import	Export
NER to ER	165.28	104.73
NER to NR	0	374.26
		Net_Import(MU)
Net export by NER		478.99
Net import by NER		165.28

Estimation of Energy Requirement (MU)

Average Frequency (Hz)	49.997						
Name of Constituents	Generation	Energy drawal from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement
		Schedule	Drawal				
ARUNACHAL PRADESH	4.71	77.05	68.61	73.32	0.007	0	73.320
ASSAM	197.119	761.190	752.870	949.99	0.080	0.250	950.239
MANIPUR	0	77.24	74.68	74.68	0.007	0.06	74.740
MEGHALAYA	112.99	55.95	54.41	167.4	0.015	3.01	170.410
MIZORAM	2.785	56.37	51.08	53.87	0.005	0	53.865
NAGALAND	7.46	66.45	65.97	73.43	0.007	0	73.430
TRIPURA (including BANGLADESH)	115.31	105.28	98.81	214.12	0.019	0	214.120
HVDC_BNC	0.000	0.738	0.662	0.662	0.0001	0	0.662
Total (inluding Bangladesh)	440.374	1200.268	1167.092	1607.470	0.140	3.320	1610.785

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	137.29	At 19:15 Hrs on 27.05.22	49.987	0.041	5	142.33
ASSAM	2081.506	At 20:00 Hrs on 31.05.22	50.041	-2.498	64.4	2143.406
MANIPUR	194.85	At 18:34 Hrs on 07.05.22	50.057	-0.351	2	196.5
MEGHALAYA	342.532	At 19:00 Hrs on 11.05.22	50.076	-0.822	0	341.712
MIZORAM	117.3	At 18:30 Hrs on 15.05.22	50.079	-0.282	0	117.02
NAGALAND	145.3	At 18:00 Hrs on 12.05.22	50.056	-0.262	0	145.04
TRIPURA (EXCLUDING BANGLADESH)	303.2	At 19:40 Hrs on 07.05.22	49.989	0.091	0	303.29
TRIPURA (INCLUDING BANGLADESH)	434.29	At 18:52 Hrs on 16.05.22	49.95	0.651	0	434.94
HVDC_BNC	1.321	At 00:15 Hrs on 21.05.22	50.04	-0.002	0	1.321
NER (EXCLUDING BANGLADESH)	3212	At 19:19 Hrs on 31.05.22	50.045	-4.818	0	3207.18
NER (INCLUDING BANGLADESH)	3342	At 19:19 Hrs on 31.05.22	50.045	-5.013	0	3336.99

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	73.32	73.32	0	0	142	137	5	3.51
Assam	950.239	949.989	0.25	0.03	2146	2082	64	3
Manipur	74.74	74.68	0.06	0.08	197	195	2	1.02
Meghalaya	170.41	167.4	3.01	1.77	343	343	0	0
Mizoram	53.86	53.86	0	0	117	117	0	0
Nagaland	73.43	73.43	0	0	145	145	0	0
Tripura (excluding Bangladesh)	140.61	140.61	0	0	303	303	0	0
Tripura (including Bangladesh)	214.12	214.11	0	0	434	434	0	0
HVDC_BNC	0.662	0.662	0	0	1.321	1.321	0	0
NER (excluding Bangladesh)	1537.270422	1533.950422	3.32	0.216	3212	3212	0	0
NER (including Bangladesh)	1610.780422	1607.450422	3.33	0.207	3342	3342	0	0

Monthly Non Coventional and Coventional 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	4.7596	4.712
ASSAM						
1	CHAMPAVATI / HHPCPL	2*2	4	Hydro	0.502	0.497
2	Myntreng	2*1.5	3	Hydro	4.328	4.285
3	Azure Solar	25*1	0	Solar	3.963	3.924
4	Suryatap	1*5	5	Solar	0.45	0.445
5	Azure Solar_Boko	25*1	25	Solar	4.158	4.116
6	Azure Solar_Nagaon	15*1	15	Solar	2.328	2.304
7	Maheshwari Mining Solar	10*1	10	Solar	0.493	0.488
8	Solar park Amguri	52.8*1	52.8	Solar	4.407	4.363
9	Azure Solar_Pailapool	25*1	25	Solar	1.015	1.005
MEGHALAYA						
1	Sonapani	1*1.5	1.5	Hydro	0.587	0.581
2	Umiam Stage II	2*10	20	Hydro	5.122	5.071
3	Umtru	4*2.8	11.2	Hydro	0	0
MIZORAM						
1	Serlui B	4*3	12	Hydro	0	0
NAGALAND						
1	Likimro	3*8	24	Hydro	7.531	7.456
TRIPURA						
1	Gumti	3*5	15	Hydro	0.903	0.894
2	Monarchak Solar	1*5	5	Solar	0.531	0.526
TOTAL					41.077	40.667

CONVENTIONAL

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
ASSAM						
1	Karbi Langpi	2*50	100	Hydro	34.136	33.795
2	NRPP	63*1 + 37*1	100	Combined Cycle Gas	47.33	46.854
3	LRPP	7*10	70	Open Cycle Gas	43.416	42.982
4	LTPS	3*20+1*37.2	97.2	Gas	37.848	37.617
5	NTPS	2*21+1*11+1*24+1*22.5	99.5	Gas	12.748	12.366

MEGHALAYA						
1	Lakroh	1*1.5	1.5	Hydro	0	0
2	Myntdu Leshka	3*42	126	Hydro	53.961	53.422
3	New Umtru	2*20	40	Hydro	17.957	17.777
4	Umiam Stage I	4*9	36	Hydro	9.762	9.664
5	Umiam Stage III	2*30	60	Hydro	11.614	11.498
6	Umiam Stage IV	2*30	60	Hydro	15.132	14.981
7	Adhunik	1*25	25	Coal	0	0
8	MPL	1*8+1*43.15	51.15	Coal	0	0
9	Maithan Alloys Ltd	1*15	15	Coal	0	0
10	Shyam Century	1*13.8	13.8	Coal	0	0
MIZORAM						
1	Bairabi	4*5.73+1*17.35	40.27	Oil	0	0
2	TURIAL	2*30	60	Hydro	2.818	2.785
TRIPURA						
1	Baramura	2*5+1*7+2*21	59	Open Cycle Gas	28.647	28.361
2	Rokhia	6*8+3*21	111	Open Cycle Gas	23.246	23.014
3	MONARCHAK GAS	1*65.42+1*35.58	101	Gas	64.792	62.524
NEEPCO						
1	DOYANG	3*25	75	Hydro	13.676	13.512
2	KAMENG	2*150	300	Hydro	213.744	211.179
3	KHANDONG	2*25	50	Hydro	0	0
4	KOPILI	4*50	200	Hydro	0	0
5	KOPILI STG II	1*25	25	Hydro	0	0
6	PARE	2*55	110	Hydro	58.582	57.879
7	RANGANADI	3*135	405	Hydro	162.37	160.746
8	AGBPP	6*33.5+3*30	291	Gas	170.297	165.614
9	AGTCCPP	4*21+2*25.5	135	Gas	76.97	74.584
NHPC						
1	LOKTAK	3*35	105	Hydro	60.476	59.751
OTPCCL						
1	PALATANA	2*232.39+2*130.91	726.6	Gas	361.398	349.472
NTPC						
1	BGTPP	3*250	750	Coal	451.265	410.651
TOTAL					1972.18194	1901.027671

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

1	132KV-RANGIA-DEOTHANG	19.31
2	132KV-SALAKATI-GELEPHU	2.7
Total		22.01

EXPORT

3	132KV-RANGIA-DEOTHANG	0
4	132KV-SALAKATI-GELEPHU	0.47
Total		0.47
Net exchange with bhutan ('-' import / '+' export)		-21.54

BANGLADESH

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	73.500
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	142.200

MYANMAR

1	Total Drawal by Myanmar from Manipur (India) in MU	0.840
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.236