



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

Power System Operation Corporation Limited

(A Government of India Enterprise)

North Eastern Regional Load Despatch Centre

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### Monthly Power Supply Position of North Eastern Region for FEB'2022

#### 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
<b>A: State Sector</b>										
ARUNACHAL PRADESH	3.334	3.3	0	0	0	0	0	0	3.334	3.3
ASSAM	15.865	15.707	12.576	12.419	41.568	41.152	112.047283	111.13035	182.056727	180.408706
MEGHALAYA	32.034	31.714	0	0	0	0	0	0	32.034	31.714
MIZORAM	11.783	11.646	0	0	0	0	0	0	11.783	11.646
NAGALAND	3.111	3.08	0	0	0	0	0	0	3.111	3.08
TRIPURA	1.063	1.053	0.648	0.641	48.938	48.448	55.903	53.946	106.552	104.088
<b>Total (State Sector)</b>									<b>338.87073</b>	<b>334.23671</b>
<b>B: Central Sector</b>										
<b>NEEPCO</b>										
AGBPP	0	0	0	0	0	0	141.051	137.172	141.051	137.172
AGTCCPP	0	0	0	0	0	0	71.99	69.758	71.99	69.758
DOYANG	3.861	3.815	0	0	0	0	0	0	3.861	3.815
KAMENG HEP	105.788	104.519	0	0	0	0	0	0	105.788	104.519
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	13.839	13.673	0	0	0	0	0	0	13.839	13.673
RANGANADI	37.095	36.724	0	0	0	0	0	0	37.095	36.724
<b>NHPC</b>										
LOKTAK	20.933	20.682	0	0	0	0	0	0	20.933	20.682
<b>NTPC</b>										
BGTPP	0	0	379.556	345.396	0	0	0	0	379.556	345.396
<b>OTPCL</b>										
PALATANA	0	0	0	0	0	0	343.729	332.386	343.729	332.386
<b>Total (Central Sector)</b>									<b>1117.842</b>	<b>1064.125</b>
<b>Total NER</b>	<b>248.706</b>	<b>245.913</b>	<b>392.780444</b>	<b>358.456356</b>	<b>90.506</b>	<b>89.6</b>	<b>724.720283</b>	<b>704.39235</b>	<b>1456.71273</b>	<b>1398.36171</b>

#### Inter Regional Exchange in MU :

	Import	Export
NER to ER	0	325.31
NER to NR	313.86	0
	<b>Net_Import(MU)</b>	
Net export by NER		325.31
Net import by NER		313.86

**Estimation of Energy Requirement (MU)**

Average Frequency (Hz)	50.001						
Name of Constituents	Generation	Energy drawal from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement
		Schedule	Drawal				
ARUNACHAL PRADESH	3.3	75.17	66.73	70.03	-0.002	0	70.03
ASSAM	106.67	511.2	509.69	616.36	-0.018	0	616.36
MANIPUR	0	95.87	89.36	89.36	-0.003	0	89.36
MEGHALAYA	31.71	169.01	170.49	202.2	-0.006	0	202.2
MIZORAM	11.65	52.22	44.79	56.44	-0.002	0	56.44
NAGALAND	3.08	61.13	64.96	68.04	-0.002	0	68.04
TRIPURA (including BANGLADESH)	104.09	60.82	52.77	156.86	-0.005	0	156.86
<b>Total (inluding Bangladesh)</b>	<b>260.5</b>	<b>1025.42</b>	<b>998.79</b>	<b>1259.29</b>	<b>-0.038</b>	<b>0</b>	<b>1259.29</b>

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

### Monthly Power Supply Position of North Eastern Region for FEB'2022

#### 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	168.4	At 18:30 Hrs on 02.02.22	50.059	-0.303	28.61	196.71
ASSAM	1498.81	At 18:30 Hrs on 22.02.22	50.084	-3.597	0	1495.21
MANIPUR	255.63	At 17:49 Hrs on 01.02.22	50.043	-0.307	1	256.32
MEGHALAYA	404.985	At 18:00 Hrs on 09.02.22	50.067	-0.85	0	404.135
MIZORAM	155.58	At 19:00 Hrs on 08.02.22	50.038	-0.187	13.08	168.47
NAGALAND	142.9	At 17:30 Hrs on 16.02.22	50.091	-0.386	14	156.51
TRIPURA (EXCLUDING BANGLADESH)	227	At 17:58 Hrs on 26.02.22	50.053	-0.341	0	226.66
TRIPURA (INCLUDING BANGLADESH)	359.68	At 18:06 Hrs on 26.02.22	50.073	-0.755	0	358.92
NER (EXCLUDING BANGLADESH)	2794.0039	At 18:03 Hrs on 16.02.22	50.125	-10.058	0	2783.9439
NER (INCLUDING BANGLADESH)	2914	At 18:03 Hrs on 16.02.22	50.125	-10.49	0	2903.51

# 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	70.03	70.03	0	0	197	168	29	14.52
Assam	616.36	616.36	0	0	1499	1499	0	0
Manipur	89.36	89.36	0	0	257	256	1	0.39
Meghalaya	202.2	202.2	0	0	405	405	0	0
Mizoram	56.44	56.44	0	0	169	156	13	7.76
Nagaland	68.04	68.04	0	0	157	143	14	8.92
Tripura (excluding Bangladesh)	97.81	97.81	0	0	227	227	0	0
Tripura (including Bangladesh)	156.869	156.869	0	0	360	360	0	0
NER (excluding Bangladesh)	1200.24	1200.24	0	0	2794	2794	0	0
NER (including Bangladesh)	1259.299	1259.299	0	0	2914	2914	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
<b>ARUNACHAL PRADESH</b>						
1	DIKSHI	8*3	24	Hydro	3.334	3.3
<b>ASSAM</b>						
1	CHAMPAVATI / HHPCPL	2*2	4	Hydro	0.468	0.463
2	Myntreng	1.5*2	3	Hydro	2.532	2.507
3	Suryatap	5*1	5	Solar	0.541	0.536
4	Azure Solar	25*1	25	Solar	4.139	4.098
5	Azure Solar_Boko	25*1	25	Solar	3.118	3.087
6	Azure Solar_Nagaon	15*1	15	Solar	1.603	1.555
7	Maheshwari Mining Solar	25*1	25	Solar	0.176	0.174
<b>MEGHALAYA</b>						
1	Sonapani	1.5*1	1.5	Hydro	0.284	0.281
2	Umiam Stage II	10*2	20	Hydro	2.939	2.91
3	Umtru	2.80*4	11.2	Hydro	0	0
<b>MIZORAM</b>						
1	Serlui B	3*4	12	Hydro	2.109	2.088
<b>NAGALAND</b>						
1	Likimro	8*3	24	Hydro	3.111	3.08
<b>TRIPURA</b>						
1	Gumti	5*3	15	Hydro	1.063	1.053
2	Monarchak Solar	5*1	5	Solar	0.648	0.641
<b>TOTAL</b>					<b>26.064</b>	<b>25.772</b>

**CONVENTIONAL**

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
<b>ASSAM</b>						
1	Karbi Langpi	50*2	100	Hydro	13.333	13.2
2	NRPP	63*1 + 37*1	100	Combined Cycle Gas	66.83	66.424
3	LRPP	10*7	70	Open Cycle Gas	41.568	41.152
4	LTPS	20*3 + 37.2*1	97.2	Gas	35.514	35.297
5	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	9.7	9.409

<b>MEGHALAYA</b>						
1	Lakroh		0	Hydro	0	0
2	Myntdu Leshka	42*3	126	Hydro	1.747	1.73
3	New Umtru	20*2	40	Hydro	7.072	7.001
4	Umiam Stage I	9*4	36	Hydro	5.587	5.531
5	Umiam Stage III	30*2	60	Hydro	7.281	7.208
6	Umiam Stage IV	30*2	60	Hydro	7.124	7.053
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
<b>MIZORAM</b>						
1	Bairabi	5.73*4+1*17.35	40.27	Oil	0	0
8	TURIAL	30*2	60	Hydro	9.674	9.558
<b>TRIPURA</b>						
1	Baramura	5*2 + 7*1 + 21*2	59	Open Cycle Gas	24.357	24.113
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	24.581	24.335
11	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	55.903	53.946
<b>NEEPCO</b>						
1	DOYANG	25*3	75	Hydro	3.861	3.815
2	KAMENG	150*2	300	Hydro	105.788	104.519
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	13.839	13.673
7	RANGANADI	135*3	405	Hydro	37.095	36.724
8	AGBPP	33.5*6 + 30*3	291	Gas	141.051	137.172
9	AGTCCPP	21*4 + 25.5*2	135	Gas	71.99	69.758
<b>NHPC</b>						
1	LOKTAK	35*3	105	Hydro	20.933	20.682
<b>OTPCL</b>						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	343.729	332.386
<b>NTPC</b>						
1	BGTPP	250*3	750	Coal	379.556	345.396
<b>TOTAL</b>					<b>1428.116</b>	<b>1370.082</b>

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

1	132KV-RANGIA-DEOTHANG	0.74
2	132KV-SALAKATI-GELEPHU	0
<b>Total</b>		<b>0.74</b>

**EXPORT**

3	132KV-RANGIA-DEOTHANG	2.69
4	132KV-SALAKATI-GELEPHU	6.34
<b>Total</b>		<b>9.03</b>
Net exchange with bhutan ('-' import / '+' export)		<b>8.29</b>

**BANGLADESH**

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	59.059
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	137.670

**MYANMAR**

1	Total Drawal by Myanmar from Manipur (India) in MU	0.626
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.037