



**Monthly Power Supply Position Report of North Eastern Region for JAN,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
<b>A: State Sector</b>										
ARUNACHAL PRADESH	4.3	4.257	0	0	0	0	0	0	4.3	4.257
ASSAM	17.405	17.231	0.485	0.48	34.515	34.17	28.196	27.469	80.601	79.35
MEGHALAYA	55.937	55.377	0	0	0	0	0	0	55.937	55.377
MIZORAM	13.647	13.488	0	0	0	0	0	0	13.647	13.488
NAGALAND	5.055	5.004	0	0	0	0	0	0	5.055	5.004
TRIPURA	2.524	2.499	0.523	0.518	54.317	53.774	48.265	46.576	105.629	103.367
<b>Total (State Sector)</b>									<b>265.169</b>	<b>260.843</b>
<b>B: Central Sector</b>										
<b>NEEPCO</b>										
AGBPP	0	0	0	0	0	0	162.849	158.371	162.849	158.371
AGTCCPP	0	0	0	0	0	0	82.934	80.363	82.934	80.363
DOYANG	7.65	7.558	0	0	0	0	0	0	7.65	7.558
KHANDONG	25.241	24.938	0	0	0	0	0	0	25.241	24.938
KOPII	0	0	0	0	0	0	0	0	0	0
KOPII-2	4.177	4.127	0	0	0	0	0	0	4.177	4.127
MONARCHAK(SOLAR)	0	0	0.523	0.518	0	0	0	0	0.523	0.518
MONARCHAK(THERMAL)	0	0	0	0	0	0	48.265	46.576	48.265	46.576
PARE	15.206	15.024	0	0	0	0	0	0	15.206	15.024
RANGANADI	40.739	40.332	0	0	0	0	0	0	40.739	40.332
TUIRIAL	11.361	11.225	0	0	0	0	0	0	11.361	11.225
<b>NHPC</b>										
LOKTAK	16.986	16.782	0	0	0	0	0	0	16.986	16.782
<b>NTPC</b>										
BGTPP	0	0	378.478	344.415	0	0	0	0	378.478	344.415
<b>OTPCL</b>										
PALATANA	0	0	0	0	0	0	274.578	265.517	274.578	265.517
<b>Total (Central Sector)</b>									<b>1068.987</b>	<b>1015.746</b>
<b>Total NER</b>	<b>220.228</b>	<b>217.842</b>	<b>380.009</b>	<b>345.931</b>	<b>88.832</b>	<b>87.944</b>	<b>645.087</b>	<b>624.872</b>	<b>1334.156</b>	<b>1276.589</b>

**Inter Regional Exchange in MU :**

	Import	Export
NER to ER	39.84	106.62
NER to NR	228.27	0.17
		Net_Import(MU)
Net export by NER		106.79
Net import by NER		268.11

**Estimation of Energy Requirement (MU)**

Average Frequency (Hz)	50						
Name of Constituents	Generation	Energy drawal from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement
		Schedule	Drawal				
ARUNACHAL PRADESH	4.26	61.64	64.86	69.12	0	0.31	69.43
ASSAM	80.37	587.68	604.7	685.07	0	15.1	700.17
MANIPUR	0	95.2	82.78	82.78	0	0.44	83.22
MEGHALAYA	55.5	126.43	138.72	194.22	0	14.9	209.12
MIZORAM	13.48	46.64	42.19	55.67	0	0.32	55.99
NAGALAND	5	64.67	64.23	69.23	0	0.41	69.64
TRIPURA (excluding BANGLADESH)	103.37	67.43	67	170.37	0	0.04	170.41
Total (inluding Bangladesh)	261.98	1049.69	1064.48	1326.46	0	31.52	1357.98

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

### Monthly Power Supply Position of North Eastern Region for JAN'2020

#### 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	117.24	At 20:00 Hrs on 29.01.20	50.089	-0.317	7.76	124.68
ASSAM	1366.46	At 18:00 Hrs on 06.01.20	50.115	-4.919	0	1361.54
MANIPUR	218.21	At 17:45 Hrs on 15.01.20	50.063	-0.393	2.5	220.32
MEGHALAYA	371.49	At 18:00 Hrs on 09.01.20	50.064	-0.669	0	370.82
MIZORAM	126.92	At 17:45 Hrs on 22.01.20	50.066	-0.267	0	126.65
NAGALAND	158.5	At 17:00 Hrs on 27.01.20	50.04	-0.19	23	181.31
TRIPURA (EXCLUDING BANGLADESH)	229	At 17:59 Hrs on 16.01.20	50.07	0	0	228.52
TRIPURA (INCLUDING BANGLADESH)	344.8	At 18:00 Hrs on 28.01.20	50.07	0	0	334.8
NER (EXCLUDING BANGLADESH)	2587.82	At 17:52 Hrs on 25.01.20	50.017	-1.523	33.26	2570.74
NER (INCLUDING BANGLADESH)	2703.62	At 18:02 Hrs on 28.01.20	50.017	-1.523	33.26	2735.357

\*# 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	69.43	69.12	0.31	0.45	125	117.24	8	6.21
Assam	700.17	685.07	15.1	2.16	1366	1366.46	0	0
Manipur	83.22	82.78	0.44	0.53	221	218.21	3	1.13
Meghalaya	209.12	194.22	14.9	7.13	371	371.49	0	0
Mizoram	55.99	55.67	0.32	0.57	127	126.92	0	0
Nagaland	69.64	69.23	0.41	0.59	182	158.5	23	12.67
Tripura (excluding Bangladesh)	170.8	170.37	0.43	0.25	229	229	0	0
Tripura (including Bangladesh)	232.8	232.37	0.43	0.18	344.8	344.8	0	0
NER (excluding Bangladesh)	1358.37	1326.46	31.91	2.35	2746	2587.82	34	20.01
NER (including Bangladesh)	1420.37	1388.46	31.91	2.25	2736.8	2703.62	34	20.01

**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>ASSAM</b>						
1	Suryatap	5*1	5	Solar	0.485	0.48
<b>MEGHALAYA</b>						
1	Sonapani	1.5*1	1.5	Hydro	0.354	0.35
2	Umiam Stage II	10*2	20	Hydro	4.905	4.856
3	Umtru	2.80*4	11.2	Hydro	0	0
<b>MIZORAM</b>						
1	Sertui B	3*4	12	Hydro	2.286	2.263
<b>NAGALAND</b>						
1	Likimro	8*3	24	Hydro	5.055	5.004
<b>TRIPURA</b>						
1	Gumti	5*3	15	Hydro	2.524	2.499
<b>NEEPCO</b>						
1	Monarchak Solar	5*1	5	Solar	0.523	0.518
<b>TOTAL</b>					<b>16.132</b>	<b>15.97</b>

**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	4.3	4.257
<b>ASSAM</b>						
1	Karbi Langpi	50*2	100	Hydro	17.405	17.231
2	LRPP	10*7	70	Open Cycle Gas	34.515	34.17
3	LTPS	20*3 + 37.2*1	97.2	Gas	4.983	4.952
4	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	23.213	22.517
<b>MEGHALAYA</b>						
1	Myntdu Leshka	42*3	126	Hydro	4.394	4.35
2	New Umtru	20*2	40	Hydro	11.435	11.32
3	Umiam Stage I	9*4	36	Hydro	9.412	9.318
4	Umiam Stage III	30*2	60	Hydro	13.017	12.887
5	Umiam Stage IV	30*2	60	Hydro	12.42	12.296
6	Adhunik	25*1	25	Coal	0	0
7	MPL	8*1+43.15*1	51.15	Coal	0	0
8	Maithan Alloys Ltd	15*1	15	Coal	0	0
9	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
<b>TRIPURA</b>						
1	Baramura	5*2 + 7*1 + 21*2	59	Open Cycle Gas	15.616	15.46
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	38.701	38.314
<b>NEEPCO</b>						
1	DOYANG	25*3	75	Hydro	7.65	7.558
2	KHANDONG	25*2	50	Hydro	25.241	24.938
3	KOPILI	50*4	200	Hydro	0	0
4	KOPILI STG II	25*1	25	Hydro	4.177	4.127
5	PARE	55*2	110	Hydro	15.206	15.024
6	RANGANADI	135*3	405	Hydro	40.739	40.332
7	TURIAL	30*2	60	Hydro	11.361	11.225
8	AGBPP	33.5*6 + 30*3	291	Gas	162.849	158.371
9	AGTCCPP	21*4 + 25.5*2	135	Gas	82.934	80.363
10	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	48.265	46.576
<b>NHPC</b>						
1	LOKTAK	35*3	105	Hydro	16.986	16.782
<b>OTPCL</b>						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	274.578	265.517
<b>NTPC</b>						
1	BGTPP	250*3	750	Coal	378.478	344.415
<b>TOTAL</b>					<b>1274.007</b>	<b>1218.27</b>

**Inter-Country Power Exchange**

**BHUTAN**

**IMPORT**

1	132KV-RANGIA-DEOTHANG	0.55
2	132KV-SALAKATI-GELEPHU	0
Total		0.55

**EXPORT**

3	132KV-RANGIA-DEOTHANG	5.36
4	132KV-SALAKATI-GELEPHU	8.63
Total		13.99
Net exchange with bhutan ('-' import / '+' export)		13.44

**BANGLADESH**

1	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	115.800
2	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	62.000

**MYANMAR**

1	Total Drawal by Myanmar from Manipur (India) in MU	0.792
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.260