



## **Monthly Power Supply Position Report of North Eastern Region for APR,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	3.2	3.168	0	0	0	0	0	0	3.2	3.168
ASSAM	2.289	2.266	0.565	0.559	43.686	43.249	44.82	44.059	91.36	90.133
MEGHALAYA	30.192	29.889	0	0	0	0	0	0	30.192	29.889
MIZORAM	7.146	7.064	0	0	0	0	0	0	7.146	7.064
NAGALAND	4.016	3.976	0	0	0	0	0	0	4.016	3.976
TRIPURA	1.94	1.921	0.451	0.446	48.352	47.869	45.905	44.298	96.648	94.534
<b>Total (State Sector)</b>									<b>232.562</b>	<b>228.764</b>
<b>B: Central Sector</b>										
<b>NEEPCO</b>										
AGBPP	0	0	0	0	0	0	133.973	130.289	133.973	130.289
AGTCCPP	0	0	0	0	0	0	76.316	73.95	76.316	73.95
DOYANG	2.515	2.484	0	0	0	0	0	0	2.515	2.484
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
MONARCHAK(SOLAR)	0	0	0.451	0.446	0	0	0	0	0.451	0.446
MONARCHAK(THERMAL)	0	0	0	0	0	0	45.905	44.298	45.905	44.298
PARE	20.734	20.485	0	0	0	0	0	0	20.734	20.485
RANGANADI	64.572	63.926	0	0	0	0	0	0	64.572	63.926
TUIRIAL	5.24	5.177	0	0	0	0	0	0	5.24	5.177
<b>NHPC</b>										
LOKTAK	12.001	11.857	0	0	0	0	0	0	12.001	11.857
<b>NTPC</b>										
BGTPP	0	0	238.047	216.623	0	0	0	0	238.047	216.623
<b>OTPCL</b>										
PALATANA	0	0	0	0	0	0	417.87	404.08	417.87	404.08
<b>Total (Central Sector)</b>									<b>966.028</b>	<b>923.694</b>
<b>Total NER</b>	<b>145.405</b>	<b>143.868</b>	<b>239.063</b>	<b>217.628</b>	<b>92.038</b>	<b>91.118</b>	<b>718.884</b>	<b>696.676</b>	<b>1195.39</b>	<b>1149.29</b>

**Inter Regional Exchange in MU :**

	Import	Export
NER to ER	0	440.04
NER to NR	344.07	0
Net export by NER		440.04
Net import by NER	344.07	

**Estimation of Energy Requirement (MU)**

Average Frequency (Hz)	50.005							
Name of Constituents	Generation	Energy drawal from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement	
		Schedule	Drawal					
ARUNACHAL PRADESH	3.17	33.61	42.48	45.65	-0.007	1.31	46.96	
ASSAM	90.25	460.73	455.69	545.94	-0.082	58.38	604.32	
MANIPUR	0	65	65.87	65.87	-0.01	1.3	67.17	
MEGHALAYA	29.88	89.43	83.64	113.52	-0.017	4.04	117.56	
MIZORAM	7.07	38.46	38.93	46	-0.007	1.09	47.09	
NAGALAND	3.98	56.2	55.69	59.67	-0.009	0.87	60.54	
TRIPURA (including BANGLADESH)	94.54	92.59	77.11	171.65	-0.026	1.59	173.24	
Total (inluding Bangladesh)	228.89	836.02	819.41	1048.3	-0.158	68.58	1116.88	

# 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	73.7	At 18:45 Hrs on 14.04.20	50.042	-0.088	2.69	76.3
ASSAM	1419.36	At 19:00 Hrs on 14.04.20	50.016	-0.852	0	1418.51
MANIPUR	188.47	At 18:15 Hrs on 01.04.20	49.887	0.622	27	216.09
MEGHALAYA	260.5	At 19:00 Hrs on 25.04.20	50.067	-0.547	0	259.95
MIZORAM	102.08	At 18:00 Hrs on 12.04.20	50.091	-0.276	0	101.8
NAGALAND	129.7	At 18:15 Hrs on 14.04.20	50.072	-0.272	12.5	141.93
TRIPURA (EXCLUDING BANGLADESH)	259.2	At 18:42 Hrs on 10.04.20	49.991	0.078	0	259.28
TRIPURA (INCLUDING BANGLADESH)	396.6	At 19:00 Hrs on 10.04.20	49.96	0.476	0	397.08
NER (EXCLUDING BANGLADESH)	2433.01	At 18:33 Hrs on 14.04.20	50.147	-10.949	42.19	2464.25
NER (INCLUDING BANGLADESH)	2570.41	At 18:33 Hrs on 14.04.20	50.147	-11.567	42.19	2601.03

'# 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	46.96	45.65	1.31	2.79	76	74	3	3.52
Assam	604.32	545.94	58.38	9.66	1419	1419	0	0
Manipur	67.17	65.87	1.3	1.94	215	188	27	12.53
Meghalaya	117.56	113.52	4.04	3.44	261	261	0	0
Mizoram	47.09	46	1.09	2.31	102	102	0	0
Nagaland	60.54	59.67	0.87	1.44	142	130	13	8.79
Tripura (excluding Bangladesh)	103.85	102.26	1.59	0.92	259	259	0	0
Tripura (including Bangladesh)	173.05	171.46	1.59	0.92	397	397	0	0
NER (excluding Bangladesh)	1047.49	978.91	68.58	6.55	2475	2433	42	1.7
NER (including Bangladesh)	1116.69	1048.11	68.58	6.14	2613	2570	42	1.61

**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
<b>ASSAM</b>						
1	Myntreng	1.5*2	3	Hydro	2.289	2.266
2	Suryatap	5*1	5	Solar	0.565	0.559
<b>MEGHALAYA</b>						
1	Sonapani	1.5*1	1.5	Hydro	0.371	0.367
2	Umiam Stage II	10*2	20	Hydro	1.043	1.032
3	Umtru	2.80*4	11.2	Hydro	0	0
<b>MIZORAM</b>						
1	Serlui B	3*4	12	Hydro	1.906	1.887
<b>NAGALAND</b>						
1	Likimro	8*3	24	Hydro	4.016	3.976
<b>TRIPURA</b>						
1	Gumti	5*3	15	Hydro	1.94	1.921
<b>NEEPCO</b>						
1	Monarchak Solar	5*1	5	Solar	0.451	0.446
<b>TOTAL</b>					<b>12.581</b>	<b>12.454</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	3.2	3.168
<b>ASSAM</b>						
1	Champawati	2*2.025	4.05	Hydro	0.109	0.107
2	Karbi Langpi	50*2	100	Hydro	0	0
3	LRPP	10*7	70	Open Cycle Gas	43.686	43.249
4	LTPS	20*3 + 37.2*1	97.2	Gas	24.465	24.315
5	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	20.355	19.744
<b>MEGHALAYA</b>						
1	Lakroh		0	Hydro	0.104	0.103
2	Myntdu Leshka	42*3	126	Hydro	12.79	12.662
3	New Umtru	20*2	40	Hydro	6.414	6.35
4	Umiam Stage I	9*4	36	Hydro	1.904	1.885
5	Umiam Stage III	30*2	60	Hydro	3.982	3.942
6	Umiam Stage IV	30*2	60	Hydro	3.584	3.548
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
<b>TRIPURA</b>						
1	Baramura	5*2 + 7*1 + 21*2	59	Open Cycle Gas	13.902	13.763
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	34.45	34.106
<b>NEEPCO</b>						
1	DOYANG	25*3	75	Hydro	2.515	2.484
2	KHANDONG	25*2	50	Hydro	0	0
3	KOPILI	50*4	200	Hydro	0	0
4	KOPILI STG II	25*1	25	Hydro	0	0
5	PARE	55*2	110	Hydro	20.734	20.485
6	RANGANADI	135*3	405	Hydro	64.572	63.926
7	TURIAL	30*2	60	Hydro	5.24	5.177
8	AGBPP	33.5*6 + 30*3	291	Gas	133.973	130.289
9	AGTCCPP	21*4 + 25.5*2	135	Gas	76.316	73.95
10	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	45.905	44.298
<b>NHPC</b>						
1	LOKTAK	35*3	105	Hydro	12.001	11.857
<b>OTPCL</b>						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	417.87	404.08
<b>NTPC</b>						
1	BGTPP	250*3	750	Coal	238.047	216.623
<b>TOTAL</b>					<b>1182.809</b>	<b>1136.836</b>

**Inter-Country Power Exchange**

**BHUTAN**

**IMPORT**

1	132KV-RANGIA-DEOTHANG	5.85
2	132KV-SALAKATI-GELEPHU	0
Total		5.85

**EXPORT**

3	132KV-RANGIA-DEOTHANG	0.26
4	132KV-SALAKATI-GELEPHU	6.69
Total		6.95
Net exchange with bhutan ('-' import / '+' export)		1.1

**BANGLADESH**

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	69.210
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	141.300

**MYANMAR**

1	Total Drawal by Myanmar from Manipur (India) in MU	0.716
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.030