



## **Monthly Power Supply Position Report of North Eastern Region for JUN,2020**

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 JUN'2020**

**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	0	0	0	0	0	0	0	0	0	0
ASSAM	37.94	37.559	0.408	0.404	43.552	43.117	51.792	51.045	133.692	132.48
MEGHALAYA	148.021	146.54	18.875	18.686	0	0	0	0	166.896	165.226
MIZORAM	2.207	2.184	0	0	0	0	0	0	2.207	2.184
NAGALAND	7.174	7.102	0	0	0	0	0	0	7.174	7.102
TRIPURA	0	0	0	0	41.568	41.153	0	0	41.568	41.153
<b>Total (State Sector)</b>									<b>351.89</b>	<b>348.15</b>
<b>B: Central Sector</b>										
<b>NEEPCO</b>										
AGBPP	0	0	0	0	0	0	122.398	119.032	122.398	119.032
AGTCCPP	0	0	0	0	0	0	70.07	67.898	70.07	67.898
DOYANG	20.086	19.845	0	0	0	0	0	0	20.086	19.845
KAMENG HEP	101.61	100.39	0	0	0	0	0	0	101.61	100.39
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	0.296	0.293	0	0	0	0	0.296	0.293
MONARCHAK(THERMAL)	0	0	0	0	0	0	39.972	38.573	39.972	38.573
PARE	78.968	78.02	0	0	0	0	0	0	78.968	78.02
RANGANADI	219.749	217.552	0	0	0	0	0	0	219.749	217.552
TUIRIAL	9.538	9.424	0	0	0	0	0	0	9.538	9.424
<b>NHPC</b>										
LOKTAK	34.21	33.799	0	0	0	0	0	0	34.21	33.799
<b>NTPC</b>										
BGTPP	0	0	285.304	259.627	0	0	0	0	285.304	259.627
<b>OTPCL</b>										
PALATANA	0	0	0	0	0	0	405.222	391.849	405.222	391.849
<b>Total (Central Sector)</b>									<b>1387.422</b>	<b>1336.3018</b>
<b>Total NER</b>	<b>659.503</b>	<b>652.415</b>	<b>304.883</b>	<b>279.01</b>	<b>85.12</b>	<b>84.27</b>	<b>689.454</b>	<b>668.397</b>	<b>1739.32</b>	<b>1684.45</b>

**Inter Regional Exchange in MU :**

	Import	Export
NER to ER	311.06	0
NER to NR	0	470.8
		Net_Import(MU)
Net export by NER		470.8
Net import by NER	311.06	

**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	0	56.27	59.77	59.77	-0.009	0.26	60.03	
ASSAM	132.13	732.07	741.35	873.48	-0.131	22.56	896.04	
MANIPUR	0	70.61	77.27	77.27	-0.012	0.4	77.67	
MEGHALAYA	165.24	15.28	11.22	176.46	-0.026	0	176.46	
MIZORAM	11.6	39.08	42.98	54.58	-0.008	0.39	54.97	
NAGALAND	7.1	64.82	60.66	67.76	-0.01	0.37	68.13	
TRIPURA (including BANGLADESH)	80.01	151.97	146.56	226.57	-0.034	0.06	226.63	
<b>Total (including Bangladesh)</b>	<b>396.08</b>	<b>1130.1</b>	<b>1139.81</b>	<b>1535.89</b>	<b>-0.23</b>	<b>24.04</b>	<b>1559.93</b>	

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

## Monthly Power Supply Position of North Eastern Region for JUN'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	118.9	At 19:15 Hrs on 13.06.20	49.94	0.214	26.24	145.35
ASSAM	1798	At 19:00 Hrs on 20.06.20	50.033	-1.618	0	1796.38
MANIPUR	201.43	At 18:37 Hrs on 03.06.20	49.999	0	19	220.43
MEGHALAYA	334.5	At 19:00 Hrs on 25.06.20	50.063	-0.602	0	333.9
MIZORAM	100.7	At 18:15 Hrs on 25.06.20	50.053	-0.151	0	100.55
NAGALAND	142.9	At 19:00 Hrs on 24.06.20	50.043	-0.171	8	150.73
TRIPURA (EXCLUDING BANGLADESH)	287.4	At 20:00 Hrs on 24.06.20	50.012	-0.086	0	287.31
TRIPURA (INCLUDING BANGLADESH)	464.8	At 21:00 Hrs on 24.06.20	49.965	0.418	0	465.22
NER (EXCLUDING BANGLADESH)	2884	At 22:10 Hrs on 16.06.20	49.962	3.461	53	2940.46
NER (INCLUDING BANGLADESH)	3047	At 22:10 Hrs on 16.06.20	49.962	3.656	53	3103.66

# 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	60.03	59.77	0.26	0.43	145	119	26	18.08
Assam	896.04	873.48	22.56	2.52	1798	1798	0	0
Manipur	77.67	77.27	0.4	0.51	220	201	19	8.62
Meghalaya	176.46	176.46	0	0	335	335	0	0
Mizoram	54.97	54.58	0.39	0.71	101	101	0	0
Nagaland	68.13	67.76	0.37	0.54	151	143	8	5.3
Tripura (excluding Bangladesh)	132.53	132.47	0.06	0.03	287	287	0	0
Tripura (including Bangladesh)	226.56	226.5	0.06	0.03	465	465	0	0
NER (excluding Bangladesh)	1465.83	1441.79	24.04	1.64	2937	2884	53	1.8
NER (including Bangladesh)	1559.86	1535.82	24.04	1.54	3100	3047	53	1.71

## 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	Myntreng	1.5*2	3	Hydro	2.028	2.007
2	Suryatap	5*1	5	Solar	0.408	0.404
<b>MEGHALAYA</b>						
1	Sonapani	1.5*1	1.5	Hydro	0.679	0.672
2	Umiam Stage II	10*2	20	Hydro	4.672	4.625
3	Umtru	2.80*4	11.2	Hydro	0	0
<b>MIZORAM</b>						
1	Serlui B	3*4	12	Hydro	2.207	2.185
<b>NAGALAND</b>						
1	Likimro	8*3	24	Hydro	7.174	7.102
<b>TRIPURA</b>						
1	Gumti	5*3	15	Hydro	0	0
<b>NEEPCO</b>						
1	Monarchak Solar	5*1	5	Solar	0.296	0.293
<b>TOTAL</b>					<b>17.464</b>	<b>17.288</b>

### CONVENTIONAL

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
<b>ARUNACHAL PRADESH</b>						
No Records Found						
<b>ASSAM</b>						
1	HHCPL		0	Hydro	0.358	0.354
2	Karbi Langpi	50*2	100	Hydro	35.554	35.198
3	LRPP	10*7	70	Open Cycle Gas	43.552	43.117
4	LTPS	20*3 + 37.2*1	97.2	Gas	33.785	33.578
5	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	18.007	17.467

MEGHALAYA						
1	Lakroh		0	Hydro	0.29	0.287
2	Myntdu Leshka	42*3	126	Hydro	83.099	82.268
3	New Umtru	20*2	40	Hydro	21.706	21.489
4	Umiam Stage I	9*4	36	Hydro	9.162	9.07
5	Umiam Stage III	30*2	60	Hydro	13.273	13.14
6	Umiam Stage IV	30*2	60	Hydro	15.14	14.989
7	Adhunik	25*1	25	Coal	8.102	8.021
8	MPL	8*1+43.15*1	51.15	Coal	10.773	10.665
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
TRIPURA						
1	Baramura	5*2 + 7*1 + 21*2	59	Open Cycle Gas	13.954	13.815
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	27.614	27.338
NEEPCO						
1	DOYANG	25*3	75	Hydro	20.086	19.845
2	KAMENG	660	660	Hydro	101.61	100.39
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	78.968	78.02
7	RANGANADI	135*3	405	Hydro	219.749	217.552
8	TURIAL	30*2	60	Hydro	9.538	9.424
9	AGBPP	33.5*6 + 30*3	291	Gas	122.398	119.032
10	AGTCCPP	21*4 + 25.5*2	135	Gas	70.07	67.898
11	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	39.972	38.573
NHPC						
1	LOKTAK	35*3	105	Hydro	34.21	33.799
OTPCL						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	405.222	391.849
NTPC						
1	BGTPP	250*3	750	Coal	285.304	259.627
<b>TOTAL</b>					<b>1721.496</b>	<b>1666.805</b>

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

1	132KV-RANGIA-DEOTHANG	34.66
2	132KV-SALAKATI-GELEPHU	23.1
Total		57.76

**EXPORT**

3	132KV-RANGIA-DEOTHANG	0
4	132KV-SALAKATI-GELEPHU	0
Total		0
Net exchange with bhutan ('-' import / '+' export)		-57.76

**BANGLADESH**

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	94.030
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	182.200

**MYANMAR**

1	Total Drawal by Myanmar from Manipur (India) in MU	0.807
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.330