



Monthly Power Supply Position Report of North Eastern Region for MAR,2020

Power System Operation Corporation Limited

(A Government of India Enterprise)

North Eastern Regional Load Despatch Centre

Monthly Power Supply Position Report of North Eastern Region for MAR,2020

| Date of Issue | Revision No |
|----------------------|--------------------|
| 03-04-2020 | 0 |
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Monthly Power Supply Position of North Eastern Region for MAR'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 |
| A: State Sector | | | | | | | | | | |
| ARUNACHAL PRADESH | 3.6 | 3.564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ASSAM | 1.773 | 1.755 | 0.555 | 0.549 | 42.833 | 42.405 | 61.157 | 60.214 | 106.318 | 104.923 |
| MEGHALAYA | 36.269 | 35.907 | 0 | 0 | 0 | 0 | 0 | 0 | 36.269 | 35.907 |
| MIZORAM | 9.69 | 9.579 | 0 | 0 | 0 | 0 | 0 | 0 | 9.69 | 9.579 |
| NAGALAND | 2.769 | 2.741 | 0 | 0 | 0 | 0 | 0 | 0 | 2.769 | 2.741 |
| TRIPURA | 2.115 | 2.094 | 0.53 | 0.525 | 47.498 | 47.023 | 69.513 | 67.08 | 119.656 | 116.722 |
| Total (State Sector) | | | | | | | | | 274.702 | 269.872 |
| B: Central Sector | | | | | | | | | | |
| NEEPCO | | | | | | | | | | |
| AGBPP | 0 | 0 | 0 | 0 | 0 | 0 | 150.888 | 146.739 | 150.888 | 146.739 |
| AGTCCPP | 0 | 0 | 0 | 0 | 0 | 0 | 81.899 | 79.36 | 81.899 | 79.36 |
| DOYANG | 4.657 | 4.601 | 0 | 0 | 0 | 0 | 0 | 0 | 4.657 | 4.601 |
| 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 | 0.53 | 0.525 | 0 | 0 | 0 | 0 | 0.53 | 0.525 |
| MONARCHAK(THERMAL) | 0 | 0 | 0 | 0 | 0 | 0 | 69.513 | 67.08 | 69.513 | 67.08 |
| PARE | 17.859 | 17.644 | 0 | 0 | 0 | 0 | 0 | 0 | 17.859 | 17.644 |
| RANGANADI | 53.566 | 53.03 | 0 | 0 | 0 | 0 | 0 | 0 | 53.566 | 53.03 |
| TUIRIAL | 7.181 | 7.095 | 0 | 0 | 0 | 0 | 0 | 0 | 7.181 | 7.095 |
| NHPC | | | | | | | | | | |
| LOKTAK | 22.74 | 22.467 | 0 | 0 | 0 | 0 | 0 | 0 | 22.74 | 22.467 |
| NTPC | | | | | | | | | | |
| BGTPP | 0 | 0 | 296.176 | 269.52 | 0 | 2.22 | 0 | 0 | 296.176 | 269.52 |
| OTPCL | | | | | | | | | | |
| PALATANA | 0 | 0 | 0 | 0 | 0 | 0 | 171.486 | 165.827 | 171.486 | 165.827 |
| Total (Central Sector) | | | | | | | | | 799.271 | 759.188 |
| Total NER | 151.438 | 149.818 | 297.261 | 270.594 | 90.331 | 89.428 | 534.943 | 519.22 | 1073.973 | 1029.06 |

Inter Regional Exchange in MU :

| | Import | Export |
|-------------------|--------|-----------------------|
| NER to ER | 306.25 | 52.39 |
| NER to NR | 174.27 | 136.99 |
| | | Net_Import(MU) |
| Net export by NER | | 189.38 |
| Net import by NER | | 480.52 |

Estimation of Energy Requirement (MU)

| Average Frequency (Hz) | 50.007 | | | | | | |
|-------------------------------------|---------------|-------------------------|----------------|--------------------|------------------------|---------------|--------------------|
| Name of Constituents | Generation | Energy drawal from grid | | Energy Consumption | Frequency Correction # | Load Shedding | Actual Requirement |
| | | Schedule | Drawal | | | | |
| ARUNACHAL PRADESH | 3.56 | 61.89 | 60.98 | 64.54 | -0.014 | 0.31 | 64.85 |
| ASSAM | 104.93 | 559.08 | 560.28 | 665.21 | -0.14 | 21.51 | 686.72 |
| MANIPUR | 0 | 76.4 | 80.07 | 80.07 | -0.017 | 0.39 | 80.46 |
| MEGHALAYA | 35.9 | 118.16 | 124.02 | 159.92 | -0.034 | 4.35 | 164.27 |
| MIZORAM | 9.57 | 42.55 | 43.65 | 53.22 | -0.011 | 0.25 | 53.47 |
| NAGALAND | 2.74 | 61.25 | 63.06 | 65.8 | -0.014 | 0.33 | 66.13 |
| TRIPURA (including BANGLADESH) | 116.71 | 74.59 | 71.27 | 187.98 | -0.039 | 0.01 | 187.99 |
| Total (including Bangladesh) | 273.41 | 993.92 | 1003.33 | 1276.74 | -0.269 | 27.15 | 1303.89 |

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

Monthly Power Supply Position of North Eastern Region for MAR'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 | 127.57 | At 19:30 Hrs on 03.03.20 | 50.024 | -0.077 | 25.9 | 153.39 |
| ASSAM | 1429.5 | At 19:00 Hrs on 18.03.20 | 50.003 | 0 | 36.5 | 1466 |
| MANIPUR | 200 | At 18:11 Hrs on 04.03.20 | 49.92 | 0.48 | 10 | 210.48 |
| MEGHALAYA | 343.06 | At 19:00 Hrs on 05.03.20 | 49.989 | 0.103 | 0 | 343.16 |
| MIZORAM | 111 | At 18:00 Hrs on 07.03.20 | 50.048 | -0.167 | 0 | 110.83 |
| NAGALAND | 141.6 | At 17:45 Hrs on 21.03.20 | 50.022 | -0.085 | 15 | 156.52 |
| TRIPURA (EXCLUDING BANGLADESH) | 251.72 | At 18:47 Hrs on 28.03.20 | 49.785 | 1.586 | 0 | 253.31 |
| TRIPURA (INCLUDING BANGLADESH) | 390.4 | At 19:00 Hrs on 28.03.20 | 49.981 | 0.234 | 0 | 390.63 |
| NER (EXCLUDING BANGLADESH) | 2509 | At 18:21 Hrs on 17.03.20 | 50.04 | -3.011 | 87 | 2592.99 |
| NER (INCLUDING BANGLADESH) | 2646 | At 18:21 Hrs on 17.03.20 | 50.04 | -3.175 | 87 | 2729.82 |

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 | 64.85 | 64.54 | 0.31 | 0.48 | 153 | 128 | 26 | 16.88 |
| Assam | 686.72 | 665.21 | 21.51 | 3.13 | 1466 | 1430 | 37 | 2.49 |
| Manipur | 80.46 | 80.07 | 0.39 | 0.48 | 210 | 200 | 10 | 4.76 |
| Meghalaya | 164.27 | 159.92 | 4.35 | 2.65 | 343 | 343 | 0 | 0 |
| Mizoram | 53.47 | 53.22 | 0.25 | 0.47 | 111 | 111 | 0 | 0 |
| Nagaland | 66.13 | 65.8 | 0.33 | 0.5 | 157 | 142 | 15 | 9.58 |
| Tripura (excluding Bangladesh) | 108.75 | 108.74 | 0.01 | 0.01 | 252 | 252 | 0 | 0 |
| Tripura (including Bangladesh) | 187.98 | 187.97 | 0.01 | 0.01 | 390 | 390 | 0 | 0 |
| NER (excluding Bangladesh) | 1224.65 | 1197.5 | 27.15 | 2.22 | 2596 | 2509 | 87 | 3.35 |
| NER (including Bangladesh) | 1303.88 | 1276.73 | 27.15 | 2.22 | 2733 | 2646 | 87 | 3.18 |

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 |
|------------------|--------------------|-------------------------|------|-------|------------------------|----------------------|
| ASSAM | | | | | | |
| 1 | Myntreng | 1.5*2 | 3 | Hydro | 1.594 | 1.578 |
| 2 | Suryatap | 5*1 | 5 | Solar | 0.555 | 0.549 |
| MEGHALAYA | | | | | | |
| 1 | Sonapani | 1.5*1 | 1.5 | Hydro | 0.265 | 0.263 |
| 2 | Umiam Stage II | 10*2 | 20 | Hydro | 3.678 | 3.641 |
| 3 | Umtru | 2.80*4 | 11.2 | Hydro | 0 | 0 |
| MIZORAM | | | | | | |
| 1 | Serlui B | 3*4 | 12 | Hydro | 2.509 | 2.484 |
| NAGALAND | | | | | | |
| 1 | Likimro | 8*3 | 24 | Hydro | 2.769 | 2.741 |
| TRIPURA | | | | | | |
| 1 | Gumti | 5*3 | 15 | Hydro | 2.115 | 2.094 |
| NEEPCO | | | | | | |
| 1 | Monarchak Solar | 5*1 | 5 | Solar | 0.53 | 0.525 |
| TOTAL | | | | | 14.015 | 13.875 |

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 | 3.6 | 3.564 |
| ASSAM | | | | | | |
| 1 | Champawati | 2*2.025 | 4.05 | Hydro | 0.179 | 0.177 |
| 2 | Karbi Langpi | 50*2 | 100 | Hydro | 0 | 0 |
| 3 | LRPP | 10*7 | 70 | Open Cycle Gas | 42.833 | 42.405 |
| 4 | LTPS | 20*3 + 37.2*1 | 97.2 | Gas | 37.347 | 37.118 |
| 5 | NTPS | 21*2 + 11*1 + 24*1 + 22.5*1 | 99.5 | Gas | 23.81 | 2.22 |
| MEGHALAYA | | | | | | |
| 1 | Lakroh | 1.5*1 | 1.5 | Hydro | 0.08 | 0.08 |
| 2 | Myntdu Leshka | 42*3 | 126 | Hydro | 2.087 | 2.066 |
| 3 | New Umtru | 20*2 | 40 | Hydro | 7.225 | 7.153 |
| 4 | Umiam Stage I | 9*4 | 36 | Hydro | 6.908 | 6.839 |
| 5 | Umiam Stage III | 30*2 | 60 | Hydro | 8.458 | 8.373 |
| 6 | Umiam Stage IV | 30*2 | 60 | Hydro | 7.568 | 7.492 |
| 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 |

| 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 | 14.418 | 14.274 |
| 2 | Rokhia | 8*6 + 21*3 | 111 | Open Cycle Gas | 33.08 | 32.749 |
| NEEPCO | | | | | | |
| 1 | DOYANG | 25*3 | 75 | Hydro | 4.657 | 4.601 |
| 2 | KHANDONG | 25*2 | 50 | Hydro | 0.000 | 0.000 |
| 3 | KOPII | 50*4 | 200 | Hydro | 0.000 | 0.000 |
| 4 | KOPII STG II | 25*1 | 25 | Hydro | 0.000 | 0.000 |
| 5 | PARE | 55*2 | 110 | Hydro | 17.859 | 17.644 |
| 6 | RANGANADI | 135*3 | 405 | Hydro | 53.566 | 53.030 |
| 7 | TURIAL | 30*2 | 60 | Hydro | 7.181 | 7.095 |
| 8 | AGBPP | 33.5*6 + 30*3 | 291 | Gas | 150.888 | 146.739 |
| 9 | AGTCCPP | 21*4 + 25.5*2 | 135 | Gas | 81.899 | 79.360 |
| 10 | MONARCHAK GAS | 65.42*1 + 35.58*1 | 101 | Gas | 69.513 | 67.080 |
| NHPC | | | | | | |
| 1 | LOKTAK | 35*3 | 105 | Hydro | 22.74 | 22.467 |
| OTPCL | | | | | | |
| 1 | PALATANA | 232.39*2 + 130.91*2 | 726.6 | Gas | 171.486 | 165.827 |
| NTPC | | | | | | |
| 1 | BGTPP | 250*3 | 750 | Coal | 296.176 | 269.52 |
| TOTAL | | | | | 1059.958 | 1015.185 |

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

| | | |
|-------|------------------------|------|
| 1 | 132KV-RANGIA-DEOTHANG | 1.09 |
| 2 | 132KV-SALAKATI-GELEPHU | 0 |
| Total | | 1.09 |

EXPORT

| | | |
|--|------------------------|-------|
| 3 | 132KV-RANGIA-DEOTHANG | 6.24 |
| 4 | 132KV-SALAKATI-GELEPHU | 7.05 |
| Total | | 13.29 |
| Net exchange with bhutan ('-' import / '+' export) | | 12.2 |

BANGLADESH

| | | |
|---|--|---------|
| 1 | Total Drawal by Bangladesh from Surjamaninagar (India) in MU | 79.230 |
| 2 | Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW | 140.400 |

MYANMAR

| | | |
|---|--|-------|
| 1 | Total Drawal by Myanmar from Manipur (India) in MU | 0.716 |
| 2 | Maximum Drawal by Myanmar from Manipur (India) in MW | 1.930 |