



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

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 JAN,2022**

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|                      |                    |
|                      |                    |

**Monthly Power Supply Position of North Eastern Region for JAN'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             | 3.977         | 3.937         | 0                  | 0             | 0                      | 0            | 0                     | 0             | 3.98           | 3.94           |
| ASSAM                         | 19.62152      | 19.425        | 7.92               | 7.89          | 43.578                 | 43.143       | 88.47                 | 85.84         | 159.59         | 156.29         |
| MEGHALAYA                     | 39.691        | 39.293        | 0                  | 0             | 0                      | 0            | 0                     | 0             | 39.69          | 39.29          |
| MIZORAM                       | 20.13         | 19.893        | 0                  | 0             | 0                      | 0            | 0                     | 0             | 20.13          | 19.89          |
| NAGALAND                      | 3.407         | 3.373         | 0                  | 0             | 0                      | 0            | 0                     | 0             | 3.41           | 3.37           |
| TRIPURA                       | 1.567         | 1.551         | 0.505              | 0.50          | 54.94                  | 54.39        | 53.85                 | 51.96         | 110.86         | 108.41         |
| <b>Total (State Sector)</b>   |               |               |                    |               |                        |              |                       |               | <b>337.65</b>  | <b>331.19</b>  |
| <b>B: Central Sector</b>      |               |               |                    |               |                        |              |                       |               |                |                |
| <b>NEEPCO</b>                 |               |               |                    |               |                        |              |                       |               |                |                |
| AGBPP                         | 0             | 0             | 0                  | 0             | 0                      | 0.00         | 144.65                | 140.67        | 144.65         | 140.67         |
| AGTCCPP                       | 0             | 0             | 0                  | 0             | 0                      | 0.00         | 73.02                 | 70.75         | 73.02          | 70.75          |
| DOYANG                        | 3.961         | 3.914         | 0                  | 0             | 0                      | 0.00         | 0.00                  | 0.00          | 3.96           | 3.91           |
| KAMENG HEP                    | 125.817       | 124.307       | 0                  | 0             | 0                      | 0.00         | 0.00                  | 0.00          | 125.82         | 124.31         |
| KHANDONG                      | 4.185         | 4.134         | 0                  | 0             | 0                      | 0.00         | 0.00                  | 0.00          | 4.19           | 4.13           |
| KOPILI                        | 0             | 0             | 0                  | 0             | 0                      | 0.00         | 0.00                  | 0.00          | 0.00           | 0.00           |
| KOPILI-2                      | 0.701         | 0.693         | 0                  | 0             | 0                      | 0.00         | 0.00                  | 0.00          | 0.70           | 0.69           |
| PARE                          | 13.061        | 12.904        | 0                  | 0             | 0                      | 0.00         | 0.00                  | 0.00          | 13.06          | 12.90          |
| RANGANADI                     | 33.681        | 33.344        | 0                  | 0             | 0                      | 0.00         | 0.00                  | 0.00          | 33.68          | 33.34          |
| <b>NHPC</b>                   |               |               |                    |               |                        |              |                       |               |                |                |
| LOKTAK                        | 32.47         | 32.08         | 0.00               | 0.00          | 0.00                   | 0.00         | 0.00                  | 0.00          | 32.47          | 32.08          |
| <b>NTPC</b>                   |               |               |                    |               |                        |              |                       |               |                |                |
| BGTPP                         | 0.00          | 0.00          | 270.60             | 246.25        | 0.00                   | 0.00         | 0.00                  | 0.00          | 270.60         | 246.25         |
| <b>OTPCL</b>                  |               |               |                    |               |                        |              |                       |               |                |                |
| PALATANA                      | 0.00          | 0.00          | 0.00               | 0.00          | 0.00                   | 0.00         | 406.52                | 393.10        | 406.52         | 393.10         |
| <b>Total (Central Sector)</b> |               |               |                    |               |                        |              |                       |               | <b>1108.66</b> | <b>1062.15</b> |
| <b>Total NER</b>              | <b>302.27</b> | <b>298.85</b> | <b>279.02</b>      | <b>254.63</b> | <b>98.52</b>           | <b>97.54</b> | <b>766.50</b>         | <b>742.33</b> | <b>1446.31</b> | <b>1393.34</b> |

**Inter Regional Exchange in MU :**

|                   | Import                | Export |
|-------------------|-----------------------|--------|
| NER to ER         | 83.14                 | 120.5  |
| NER to NR         | 193.29                | 14.71  |
|                   | <b>Net_Import(MU)</b> |        |
| Net export by NER |                       | 135.21 |
| Net import by NER |                       | 276.43 |

**Estimation of Energy Requirement (MU)**

| Average Frequency (Hz)              | 50.003        |                         |                |                    |                        |               |                    |
|-------------------------------------|---------------|-------------------------|----------------|--------------------|------------------------|---------------|--------------------|
| Name of Constituents                | Generation    | Energy drawal from grid |                | Energy Consumption | Frequency Correction # | Load Shedding | Actual Requirement |
|                                     |               | Schedule                | Drawal         |                    |                        |               |                    |
| ARUNACHAL PRADESH                   | 3.94          | 76.61                   | 70.78          | 74.72              | -0.007                 | 0             | 74.72              |
| ASSAM                               | 103.26        | 605.11                  | 598.3          | 701.56             | -0.063                 | 0             | 701.56             |
| MANIPUR                             | 0             | 109.35                  | 104.76         | 104.76             | -0.009                 | 0             | 104.76             |
| MEGHALAYA                           | 39.29         | 183.3                   | 185.63         | 224.92             | -0.02                  | 0             | 224.92             |
| MIZORAM                             | 19.89         | 49.43                   | 42.51          | 62.4               | -0.006                 | 0             | 62.4               |
| NAGALAND                            | 3.37          | 64.54                   | 70.47          | 73.84              | -0.007                 | 0             | 73.84              |
| TRIPURA (including BANGLADESH)      | 108.41        | 71.61                   | 62.79          | 171.2              | -0.015                 | 0             | 171.2              |
| <b>Total (including Bangladesh)</b> | <b>278.16</b> | <b>1159.95</b>          | <b>1135.24</b> | <b>1413.4</b>      | <b>-0.127</b>          | <b>0</b>      | <b>1413.4</b>      |

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

**Monthly Power Supply Position of North Eastern Region for JAN'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              | 164                        | At 20:15 Hrs on 31.01.22      | 49.978                                   | 0.126                  | 0  | 164                                    |
| ASSAM                          | 1505                       | At 18:00 Hrs on 29.01.22      | 50.098                                   | -4.515                 | 0  | 1500                                   |
| MANIPUR                        | 258                        | At 17:45 Hrs on 31.01.22      | 50.069                                   | -0.542                 | 0  | 258                                    |
| MEGHALAYA                      | 408                        | At 18:00 Hrs on 31.01.22      | 50.107                                   | -1.347                 | 0  | 407                                    |
| MIZORAM                        | 150                        | At 17:45 Hrs on 28.01.22      | 50.02                                    | -0.09                  | 6.15   | 157                                    |
| NAGALAND                       | 139                        | At 17:30 Hrs on 18.01.22      | 50.048                                   | -0.208                 | 5.7  | 144                                    |
| TRIPURA (EXCLUDING BANGLADESH) | 224                        | At 17:36 Hrs on 18.01.22      | 49.995                                   | 0                      | 0  | 224                                    |
| TRIPURA (INCLUDING BANGLADESH) | 347                        | At 17:41 Hrs on 31.01.22      | 49.984                                   | 0.208                  | 0  | 347                                    |
| NER (EXCLUDING BANGLADESH)     | 2795                       | At 17:58 Hrs on 29.01.22      | 50.043                                   | -3.354                 | 0  | 2791                                   |
| NER (INCLUDING BANGLADESH)     | 2919                       | At 17:58 Hrs on 29.01.22      | 50.043                                   | -3.503                 | 0  | 2916                                   |

'# 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              | 74.72  | 74.72        | 0         | 0             | 164                               | 164        | 0         | 0             |
| Assam                          | 701.56   | 701.56       | 0         | 0             | 1505                              | 1505       | 0         | 0             |
| Manipur                        | 104.76   | 104.76       | 0         | 0             | 258                               | 258        | 0         | 0             |
| Meghalaya                      | 224.92   | 224.92       | 0         | 0             | 408                               | 408        | 0         | 0             |
| Mizoram                        | 62.4   | 62.4         | 0         | 0             | 157                               | 150        | 6         | 3.93          |
| Nagaland                       | 73.84  | 73.84        | 0         | 0             | 145                               | 139        | 6         | 3.94          |
| Tripura (excluding Bangladesh) | 108.88   | 108.88       | 0         | 0             | 224                               | 224        | 0         | 0             |
| Tripura (including Bangladesh) | 171.2  | 171.09       | 0         | 0             | 347                               | 347        | 0         | 0             |
| NER (excluding Bangladesh)     | 1351.08  | 1351.08      | 0         | 0             | 2795                              | 2795       | 0         | 0             |
| NER (including Bangladesh)     | 1413.4   | 1413.29      | 0.11      | 0.008         | 2919                              | 2919       | 0         | 0             |

**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>ARUNACHAL PRADESH</b> |                    |                         |      |       |                        |                      |
| 1                        | DIKSHI             | 8*3                     | 24   | Hydro | 3.977                  | 3.937                |
| <b>ASSAM</b>             |                    |                         |      |       |                        |                      |
| 1                        | CHAMPAVATI / HHCPL | 2*2                     | 4    | Hydro | 0.604                  | 0.597                |
| 1                        | Myntreng           | 1.5*2                   | 3    | Hydro | 2.053                  | 2.033                |
| 2                        | Suryatap           | 5*1                     | 5    | Solar | 0.535                  | 0.53                 |
| 4                        | Azure Solar_Rowta  | 25*1                    | 25   | Solar | 4.032                  | 4.022                |
| 5                        | Azure Solar_Boko   | 25*1                    | 25   | Solar | 2.134                  | 2.120                |
| 6                        | Azure Solar_Nagaon | 15*1                    | 15   | Solar | 1.220                  | 1.214                |
| <b>MEGHALAYA</b>         |                    |                         |      |       |                        |                      |
| 1                        | Sonapani           | 1.5*1                   | 1.5  | Hydro | 0.366                  | 0.362                |
| 2                        | Umiam Stage II     | 10*2                    | 20   | Hydro | 3.626                  | 3.59                 |
| 3                        | Umtru              | 2.80*4                  | 11.2 | Hydro | 0                      | 0                    |
| <b>MIZORAM</b>           |                    |                         |      |       |                        |                      |
| 1                        | Sertui B           | 3*4                     | 12   | Hydro | 2.404                  | 2.38                 |
| <b>NAGALAND</b>          |                    |                         |      |       |                        |                      |
| 1                        | Likimro            | 8*3                     | 24   | Hydro | 3.407                  | 3.373                |
| <b>TRIPURA</b>           |                    |                         |      |       |                        |                      |
| 1                        | Gumti              | 5*3                     | 15   | Hydro | 1.567                  | 1.551                |
| 2                        | Monarchak Solar    | 5*1                     | 5    | Solar | 0.505                  | 0.5                  |
| <b>TOTAL</b>             |                    |                         |      |       | <b>26.429</b>          | <b>26.209</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              | 16.965                 | 16.795               |
| 2            | NRPP               | 63*1 + 37*1                 | 100  | Combined Cycle Gas | 48.99                  | 46.880               |
| 3            | LRPP               | 10*7                        | 70   | Open Cycle Gas     | 43.578                 | 43.143               |
| 4            | LTPS               | 20*3 + 37.2*1               | 97.2 | Gas                | 28.074                 | 27.902               |
| 5            | NTPS               | 21*2 + 11*1 + 24*1 + 22.5*1 | 99.5 | Gas                | 11.399                 | 11.057               |

| MEGHALAYA    |                    |                     |       |                |                |                |
|--------------|--------------------|---------------------|-------|----------------|----------------|----------------|
| 1            | Lakroh             | 1.5*1               | 1.5   | Hydro          | 0              | 0              |
| 2            | Myntdu Leshka      | 42*3                | 126   | Hydro          | 2.074          | 2.053          |
| 3            | New Umtru          | 20*2                | 40    | Hydro          | 8.938          | 8.848          |
| 4            | Umiam Stage I      | 9*4                 | 36    | Hydro          | 7.03           | 6.96           |
| 5            | Umiam Stage III    | 30*2                | 60    | Hydro          | 8.777          | 8.689          |
| 6            | Umiam Stage IV     | 30*2                | 60    | Hydro          | 8.88           | 8.791          |
| 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              |
| 2            | TURIAL             | 30*2                | 60    | Hydro          | 17.726         | 17.513         |
| TRIPURA      |                    |                     |       |                |                |                |
| 1            | Baramura           | 5*2 + 7*1 + 21*2    | 59    | Open Cycle Gas | 27.046         | 26.776         |
| 2            | Rokhia             | 8*6 + 21*3          | 111   | Open Cycle Gas | 27.895         | 27.616         |
| 3            | MONARCHAK GAS      | 65.42*1 + 35.58*1   | 101   | Gas            | 53.848         | 51.963         |
| NEEPCO       |                    |                     |       |                |                |                |
| 1            | DOYANG             | 25*3                | 75    | Hydro          | 3.961          | 3.914          |
| 2            | KAMENG             | 150*2               | 300   | Hydro          | 125.817        | 124.307        |
| 3            | KHANDONG           | 25*2                | 50    | Hydro          | 4.185          | 4.134          |
| 4            | KOPILI             | 50*4                | 200   | Hydro          | 0              | 0              |
| 5            | KOPILI STG II      | 25*1                | 25    | Hydro          | 0.701          | 0.693          |
| 6            | PARE               | 55*2                | 110   | Hydro          | 13.061         | 12.904         |
| 7            | RANGANADI          | 135*3               | 405   | Hydro          | 33.681         | 33.344         |
| 8            | AGBPP              | 33.5*6 + 30*3       | 291   | Gas            | 144.648        | 140.67         |
| 9            | AGTCCPP            | 21*4 + 25.5*2       | 135   | Gas            | 73.018         | 70.754         |
| NHPC         |                    |                     |       |                |                |                |
| 1            | LOKTAK             | 35*3                | 105   | Hydro          | 32.469         | 32.079         |
| OTPCL        |                    |                     |       |                |                |                |
| 1            | PALATANA           | 232.39*2 + 130.91*2 | 726.6 | Gas            | 406.52         | 393.104        |
| NTPC         |                    |                     |       |                |                |                |
| 1            | BGTPP              | 250*3               | 750   | Coal           | 270.599        | 246.245        |
| <b>TOTAL</b> |                    |                     |       |                | <b>1419.88</b> | <b>1367.13</b> |

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

|       |                        |      |
|-------|------------------------|------|
| 1     | 132KV-RANGIA-DEOTHANG  | 1.07 |
| 2     | 132KV-SALAKATI-GELEPHU | 0    |
| Total |                        | 1.07 |

**EXPORT**

|  |                        |      |
|--|------------------------|------|
| 3  | 132KV-RANGIA-DEOTHANG  | 0.8  |
| 4  | 132KV-SALAKATI-GELEPHU | 4.35 |
| Total  |                        | 5.15 |
| Net exchange with bhutan ('-' import / '+' export) |                        | 4.08 |

**BANGLADESH**

|   |  |         |
|---|--|---------|
| 1 | Total Drawal by Bangladesh from Surjamaninagar (India) in MU   | 62.210  |
| 2 | Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW | 127.490 |

**MYANMAR**

|   |  |       |
|---|--|-------|
| 1 | Total Drawal by Myanmar from Manipur (India) in MU   | 0.681 |
| 2 | Maximum Drawal by Myanmar from Manipur (India) in MW | 1.945 |