

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
RAJYA SABHA  
UNSTARRED QUESTION NO. 940  
ANSWERED ON 03/12/2024

GENERATION OF RENEWABLE ENERGY IN THE COUNTRY

940. SMT. RANJEET RANJAN  
SHRI NEERAJ DANGI

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the percentage of total energy generated through new and renewable energy sources in the country during the last five years;
- (b) the generation of new and renewable energy in the country during the last five years, State-wise and sector-wise; and
- (c) the steps being taken by Government to address the challenge of land acquisition, especially for solar and wind projects which require large areas of land?

ANSWER  
THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER  
(SHRI SHRIPAD YESSO NAIK)

- (a) As per information received from Central Electricity Authority (CEA), the percentage share of energy generated through renewable energy (RE) sources during the last five years is as under:

| Financial Year | Percentage of energy generated through RE Sources |
|----------------|---------------------------------------------------|
| 2019-20        | 21.17                                             |
| 2020-21        | 21.53                                             |
| 2021-22        | 21.62                                             |
| 2022-23        | 22.51                                             |
| 2023-24        | 20.69                                             |

- (b) The details of RE generation in the country during the last five years, State-wise and source wise, are given at **Annexure**.

- (c) Land is a State subject. Most renewable energy projects are set up by the private developers based on various considerations, including resource potential, adequate transmission and availability of appropriate land.

However, to address the challenges related to land acquisition, Ministry of New and Renewable Energy (MNRE) has also taken several steps, which inter-alia, include:

- (i) MNRE is implementing Scheme for Development of Solar Parks and Ultra-Mega Solar Power Projects, under which the infrastructure such as land, roads, transmission system (internal and external), pooling stations, etc. is developed with all statutory clearances/ approvals. Thus, the solar project developers have plug and play benefit.
- (ii) Under the Mode 8 of the Solar Park Scheme, a facilitation charge of Rs. 0.05/unit of power being generated from the projects in the parks is provided to the States in order to encourage the State Governments to provide necessary assistance to the Solar Power Park Developers (SPPDs) in identification & acquisition of land, to facilitate in obtaining all required clearances, etc.

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Annexure referred to in reply of part (b) of the Rajya Sabha Unstarred Question  
No. 940 to be answered on 3.12.2024

State-wise and source wise details of RE generation for the year 2019-20

| [in Million Units (MU)]                                      |                                        |                 |                 |                |                 |                |                  |               |                  |
|--------------------------------------------------------------|----------------------------------------|-----------------|-----------------|----------------|-----------------|----------------|------------------|---------------|------------------|
| S. No.                                                       | Name of State/ UT                      | Wind            | Solar           | Biomass        | Bagasse         | Small Hydro    | Large Hydro*     | Others        | Total            |
| 1                                                            | Andaman & Nicobar Islands              | 0.00            | 11.60           | 0.00           | 0.00            | 5.70           | 0.00             | 0.00          | 17.30            |
| 2                                                            | Andhra Pradesh                         | 7626.63         | 5855.11         | 147.47         | 58.49           | 298.19         | 3013.43          | 7.31          | 17006.63         |
| 3                                                            | Arunachal Pradesh                      | 0.00            | 1.60            | 0.00           | 0.00            | 0.64           | 1786.46          | 0.00          | 1788.70          |
| 4                                                            | Assam                                  | 0.00            | 6.14            | 0.00           | 0.00            | 52.63          | 1291.68          | 0.00          | 1350.45          |
| 5                                                            | Bihar                                  | 0.00            | 160.16          | 19.19          | 160.35          | 18.98          | 0.00             | 0.00          | 358.68           |
| 6                                                            | Chandigarh                             | 0.00            | 13.33           | 0.00           | 0.00            | 0.00           | 0.00             | 0.00          | 13.33            |
| 7                                                            | Chhattisgarh                           | 0.00            | 326.42          | 679.70         | 0.00            | 101.75         | 236.79           | 0.00          | 1344.66          |
| 8                                                            | Dadra and Nagar Haveli and Daman & Diu | 0.00            | 28.02           | 0.00           | 0.00            | 0.00           | 0.00             | 0.00          | 28.02            |
| 9                                                            | Delhi                                  | 0.00            | 136.30          | 0.00           | 0.00            | 0.00           | 0.00             | 287.37        | 423.67           |
| 10                                                           | Goa                                    | 0.00            | 0.82            | 0.00           | 0.00            | 0.00           | 0.00             | 0.00          | 0.82             |
| 11                                                           | Gujarat                                | 13748.53        | 3631.86         | 107.03         | 15.95           | 194.80         | 5414.68          | 18.77         | 23131.61         |
| 12                                                           | Haryana                                | 0.00            | 125.14          | 186.90         | 94.57           | 326.89         | 0.00             | 0.00          | 733.50           |
| 13                                                           | Himachal Pradesh                       | 0.00            | 11.66           | 0.00           | 0.00            | 2155.58        | 40834.88         | 0.00          | 43002.12         |
| 14                                                           | Jammu & Kashmir                        | 0.00            | 0.00            | 0.00           | 0.00            | 443.13         | 18094.12         | 0.00          | 18537.25         |
| 15                                                           | Jharkhand                              | 0.00            | 17.47           | 0.00           | 1.28            | 5.43           | 150.96           | 0.00          | 175.13           |
| 16                                                           | Karnataka                              | 10148.66        | 11221.20        | 171.27         | 2205.38         | 1901.91        | 14014.27         | 0.00          | 39662.69         |
| 17                                                           | Kerala                                 | 119.76          | 143.59          | 0.00           | 11.03           | 530.36         | 5454.04          | 0.00          | 6258.78          |
| 18                                                           | Ladakh                                 | 0.00            | 0.00            | 0.00           | 0.00            | 0.00           | 270.28           | 0.00          | 270.28           |
| 19                                                           | Lakshadweep                            | 0.00            | 0.66            | 0.00           | 0.00            | 0.00           | 0.00             | 0.00          | 0.66             |
| 20                                                           | Madhya Pradesh                         | 4425.99         | 3496.23         | 1.81           | 95.66           | 246.16         | 6281.74          | 32.02         | 14579.62         |
| 21                                                           | Maharashtra                            | 7984.27         | 2372.68         | 411.99         | 2520.45         | 695.56         | 5880.58          | 0.84          | 19866.37         |
| 22                                                           | Manipur                                | 0.00            | 2.63            | 0.00           | 0.00            | 1.57           | 366.59           | 0.00          | 370.79           |
| 23                                                           | Meghalaya                              | 0.00            | 0.00            | 0.00           | 0.00            | 62.73          | 1018.29          | 0.00          | 1081.02          |
| 24                                                           | Mizoram                                | 0.00            | 0.44            | 0.00           | 0.00            | 49.56          | 177.02           | 0.00          | 227.02           |
| 25                                                           | Nagaland                               | 0.00            | 0.00            | 0.00           | 0.00            | 75.87          | 180.85           | 0.00          | 256.72           |
| 26                                                           | Orissa                                 | 54.66           | 362.29          | 66.59          | 0.00            | 299.65         | 6728.77          | 0.00          | 7511.97          |
| 27                                                           | Puducherry                             | 0.00            | 4.14            | 0.00           | 0.00            | 0.00           | 0.00             | 0.00          | 4.14             |
| 28                                                           | Punjab                                 | 0.00            | 1358.22         | 398.37         | 252.85          | 712.77         | 5123.48          | 0.32          | 7846.01          |
| 29                                                           | Rajasthan                              | 6172.70         | 7776.56         | 389.94         | 0.00            | 9.75           | 606.18           | 0.00          | 14955.14         |
| 30                                                           | Sikkim                                 | 0.00            | 0.00            | 0.00           | 0.00            | 60.62          | 11027.36         | 0.00          | 11087.98         |
| 31                                                           | Tamil Nadu                             | 14126.93        | 4946.63         | 103.78         | 350.79          | 235.76         | 4765.24          | 0.00          | 24529.13         |
| 32                                                           | Telangana                              | 238.25          | 6263.92         | 124.30         | 102.23          | 46.29          | 4507.04          | 19.25         | 11301.27         |
| 33                                                           | Tripura                                | 0.00            | 3.43            | 0.00           | 0.00            | 24.67          | 0.00             | 0.00          | 28.10            |
| 34                                                           | Uttar Pradesh                          | 0.00            | 1447.05         | 129.63         | 3530.10         | 36.43          | 1073.48          | 0.00          | 6216.68          |
| 35                                                           | Uttarakhand                            | 0.00            | 341.51          | 0.00           | 110.26          | 742.19         | 14554.53         | 0.00          | 15748.48         |
| 36                                                           | West Bengal                            | 0.00            | 64.29           | 0.00           | 1295.07         | 115.68         | 2916.38          | 0.00          | 4391.42          |
|                                                              | <b>Total</b>                           | <b>64646.38</b> | <b>50131.10</b> | <b>2937.97</b> | <b>10804.46</b> | <b>9451.24</b> | <b>155769.12</b> | <b>365.88</b> | <b>294106.14</b> |
| <b>* Large hydro generation Excluding Import from Bhutan</b> |                                        |                 |                 |                |                 |                |                  |               |                  |

State-wise and source wise details of RE generation for the year 2020-21

| [in Million Units (MU)]                                      |                                        |                 |                 |                |                 |                 |                  |                |                  |
|--------------------------------------------------------------|----------------------------------------|-----------------|-----------------|----------------|-----------------|-----------------|------------------|----------------|------------------|
| S. No.                                                       | Name of State/ UT                      | Wind            | Solar           | Biomass        | Bagasse         | Small Hydro     | Large Hydro*     | Others         | Total            |
| 1                                                            | Andaman & Nicobar Islands              | 0.00            | 24.82           | 0.00           | 0.00            | 14.69           | 0.00             | 0.00           | 39.51            |
| 2                                                            | Andhra Pradesh                         | 6557.75         | 6956.10         | 135.21         | 67.66           | 351.23          | 3280.12          | 65.88          | 17413.95         |
| 3                                                            | Arunachal Pradesh                      | 0.00            | 1.54            | 0.00           | 0.00            | 0.55            | 3451.34          | 0.00           | 3453.44          |
| 4                                                            | Assam                                  | 0.00            | 13.37           | 0.00           | 0.00            | 38.15           | 270.87           | 0.00           | 322.38           |
| 5                                                            | Bihar                                  | 0.00            | 160.63          | 21.30          | 1.48            | 43.20           | 0.00             | 0.00           | 226.61           |
| 6                                                            | Chandigarh                             | 0.00            | 10.16           | 0.00           | 0.00            | 0.00            | 0.00             | 0.00           | 10.16            |
| 7                                                            | Chhattisgarh                           | 0.00            | 370.80          | 1089.32        | 28.25           | 145.52          | 419.19           | 0.00           | 2053.08          |
| 8                                                            | Dadra and Nagar Haveli and Daman & Diu | 0.00            | 41.47           | 10.53          | 0.00            | 0.00            | 0.00             | 0.00           | 52.00            |
| 9                                                            | Delhi                                  | 0.00            | 189.99          | 0.00           | 0.00            | 0.00            | 0.00             | 236.71         | 426.70           |
| 10                                                           | Goa                                    | 0.00            | 1.46            | 0.00           | 0.00            | 0.00            | 0.00             | 0.00           | 1.46             |
| 11                                                           | Gujarat                                | 13058.52        | 4633.81         | 43.15          | 19.37           | 211.94          | 4233.36          | 10.61          | 22210.75         |
| 12                                                           | Haryana                                | 0.00            | 162.95          | 178.88         | 142.34          | 276.58          | 0.00             | 0.00           | 760.75           |
| 13                                                           | Himachal Pradesh                       | 0.00            | 36.52           | 0.00           | 0.00            | 2123.78         | 37473.47         | 0.00           | 39633.77         |
| 14                                                           | Jammu & Kashmir                        | 0.00            | 9.42            | 0.00           | 0.00            | 429.88          | 17002.68         | 0.00           | 17441.97         |
| 15                                                           | Jharkhand                              | 0.00            | 17.16           | 0.00           | 0.00            | 9.31            | 223.09           | 0.00           | 249.56           |
| 16                                                           | Karnataka                              | 9610.91         | 13238.86        | 211.79         | 2589.09         | 2199.68         | 12587.35         | 0.00           | 40437.68         |
| 17                                                           | Kerala                                 | 130.42          | 275.44          | 0.00           | 45.68           | 640.58          | 6628.39          | 0.01           | 7720.51          |
| 18                                                           | Ladakh                                 | 0.00            | 0.00            | 0.00           | 0.00            | 0.00            | 376.21           | 0.00           | 376.21           |
| 19                                                           | Lakshadweep                            | 0.00            | 0.45            | 0.00           | 0.00            | 0.00            | 0.00             | 0.00           | 0.45             |
| 20                                                           | Madhya Pradesh                         | 3913.45         | 4202.03         | 0.48           | 82.57           | 281.76          | 6477.33          | 37.57          | 14995.19         |
| 21                                                           | Maharashtra                            | 6384.74         | 3089.46         | 328.23         | 3627.43         | 802.71          | 5548.46          | 0.10           | 19781.13         |
| 22                                                           | Manipur                                | 0.00            | 7.71            | 0.00           | 0.00            | 0.00            | 621.62           | 0.00           | 629.33           |
| 23                                                           | Meghalaya                              | 0.00            | 0.00            | 0.00           | 0.00            | 56.79           | 1151.99          | 0.00           | 1208.78          |
| 24                                                           | Mizoram                                | 0.00            | 2.45            | 0.00           | 0.00            | 31.07           | 158.85           | 0.00           | 192.37           |
| 25                                                           | Nagaland                               | 0.00            | 0.00            | 0.00           | 0.00            | 69.77           | 203.86           | 0.00           | 273.63           |
| 26                                                           | Orissa                                 | 0.00            | 476.26          | 42.71          | 0.00            | 358.80          | 6859.97          | 0.00           | 7737.74          |
| 27                                                           | Puducherry                             | 0.00            | 6.39            | 0.00           | 0.00            | 0.00            | 0.00             | 0.00           | 6.39             |
| 28                                                           | Punjab                                 | 0.00            | 1356.48         | 585.99         | 231.50          | 690.33          | 4747.03          | 0.17           | 7611.50          |
| 29                                                           | Rajasthan                              | 5708.27         | 10384.24        | 413.24         | 0.00            | 10.64           | 469.63           | 0.00           | 16986.01         |
| 30                                                           | Sikkim                                 | 0.00            | 0.00            | 0.00           | 0.00            | 55.96           | 10879.50         | 0.00           | 10935.46         |
| 31                                                           | Tamil Nadu                             | 14564.99        | 6115.48         | 152.23         | 581.57          | 244.77          | 5212.71          | 0.00           | 26871.76         |
| 32                                                           | Telangana                              | 220.91          | 6351.04         | 164.11         | 61.00           | 67.27           | 3645.38          | 69.05          | 10578.75         |
| 33                                                           | Tripura                                | 0.00            | 6.04            | 0.00           | 0.00            | 9.58            | 0.00             | 0.00           | 15.62            |
| 34                                                           | Uttar Pradesh                          | 0.00            | 1856.19         | 135.82         | 3590.87         | 164.91          | 1572.35          | 0.00           | 7320.13          |
| 35                                                           | Uttarakhand                            | 0.00            | 329.64          | 0.00           | 85.33           | 821.88          | 13592.49         | 0.00           | 14829.34         |
| 36                                                           | West Bengal                            | 0.00            | 73.92           | 0.00           | 148.73          | 107.06          | 3212.28          | 1200.99        | 4742.98          |
|                                                              | <b>Total</b>                           | <b>60149.95</b> | <b>60402.25</b> | <b>3512.98</b> | <b>11302.85</b> | <b>10258.41</b> | <b>150299.52</b> | <b>1621.06</b> | <b>297547.03</b> |
| <b>* Large hydro generation Excluding Import from Bhutan</b> |                                        |                 |                 |                |                 |                 |                  |                |                  |

State-wise and source wise details of RE generation for the year 2021-22

| [in Million Units (MU)]                                      |                                        |                 |                 |                |                 |                 |                  |                |                  |
|--------------------------------------------------------------|----------------------------------------|-----------------|-----------------|----------------|-----------------|-----------------|------------------|----------------|------------------|
| S. No.                                                       | Name of State/ UT                      | Wind            | Solar           | Biomass        | Bagasse         | Small Hydro     | Large Hydro*     | Others         | Total            |
| 1                                                            | Andaman & Nicobar Islands              | 0.00            | 21.51           | 0.00           | 0.00            | 13.26           | 0.00             | 0.00           | 34.77            |
| 2                                                            | Andhra Pradesh                         | 7134.58         | 7832.51         | 104.85         | 72.70           | 384.08          | 3113.83          | 133.88         | 18776.44         |
| 3                                                            | Arunachal Pradesh                      | 0.00            | 1.72            | 0.00           | 0.00            | 0.41            | 4161.28          | 0.00           | 4163.41          |
| 4                                                            | Assam                                  | 0.00            | 81.64           | 0.00           | 0.00            | 40.46           | 676.24           | 0.00           | 798.34           |
| 5                                                            | Bihar                                  | 0.00            | 163.08          | 2.14           | 65.84           | 8.77            | 0.00             | 0.00           | 239.83           |
| 6                                                            | Chandigarh                             | 0.00            | 14.19           | 0.00           | 0.00            | 0.00            | 0.00             | 0.00           | 14.19            |
| 7                                                            | Chhattisgarh                           | 0.00            | 436.56          | 1307.27        | 8.70            | 185.67          | 404.13           | 0.00           | 2342.34          |
| 8                                                            | Dadra and Nagar Haveli and Daman & Diu | 0.00            | 84.51           | 12.32          | 0.00            | 0.00            | 0.00             | 0.00           | 96.83            |
| 9                                                            | Delhi                                  | 0.00            | 225.84          | 0.00           | 0.00            | 0.00            | 0.00             | 232.89         | 458.73           |
| 10                                                           | Goa                                    | 0.00            | 15.93           | 0.00           | 0.00            | 0.00            | 0.00             | 0.89           | 16.82            |
| 11                                                           | Gujarat                                | 17854.77        | 6774.50         | 0.00           | 18.16           | 192.10          | 2621.51          | 0.00           | 27461.04         |
| 12                                                           | Haryana                                | 0.00            | 572.85          | 171.60         | 96.75           | 270.13          | 0.00             | 24.09          | 1135.42          |
| 13                                                           | Himachal Pradesh                       | 0.00            | 44.29           | 0.00           | 0.00            | 1999.47         | 36459.64         | 0.00           | 38503.40         |
| 14                                                           | Jammu & Kashmir                        | 0.00            | 1.71            | 0.00           | 0.00            | 414.10          | 17074.02         | 0.00           | 17489.83         |
| 15                                                           | Jharkhand                              | 0.00            | 18.21           | 0.00           | 0.00            | 10.49           | 547.96           | 0.00           | 576.67           |
| 16                                                           | Karnataka                              | 9491.62         | 13169.43        | 174.08         | 3338.24         | 2460.91         | 13936.46         | 0.00           | 42570.74         |
| 17                                                           | Kerala                                 | 136.41          | 496.93          | 0.00           | 48.92           | 932.37          | 9317.44          | 0.00           | 10932.06         |
| 18                                                           | Ladakh                                 | 0.00            | 0.00            | 0.00           | 0.00            | 0.00            | 405.98           | 0.00           | 405.98           |
| 19                                                           | Lakshadweep                            | 0.00            | 0.30            | 0.00           | 0.00            | 0.00            | 0.00             | 0.00           | 0.30             |
| 20                                                           | Madhya Pradesh                         | 4346.66         | 4006.70         | 25.35          | 82.20           | 221.43          | 4686.72          | 34.40          | 13403.45         |
| 21                                                           | Maharashtra                            | 7085.98         | 3187.18         | 316.79         | 4468.31         | 787.16          | 6007.38          | 0.22           | 21853.02         |
| 22                                                           | Manipur                                | 0.00            | 6.72            | 0.00           | 0.00            | 0.00            | 455.48           | 0.00           | 462.20           |
| 23                                                           | Meghalaya                              | 0.00            | 0.47            | 0.00           | 0.00            | 44.21           | 841.82           | 0.00           | 886.50           |
| 24                                                           | Mizoram                                | 0.00            | 1.68            | 0.00           | 0.00            | 26.41           | 137.44           | 0.00           | 165.53           |
| 25                                                           | Nagaland                               | 0.00            | 0.00            | 0.00           | 0.00            | 63.47           | 100.55           | 0.00           | 164.02           |
| 26                                                           | Orissa                                 | 0.00            | 603.71          | 100.08         | 0.00            | 377.32          | 5230.63          | 0.00           | 6311.73          |
| 27                                                           | Puducherry                             | 0.00            | 12.24           | 0.00           | 0.00            | 0.00            | 0.00             | 0.00           | 12.24            |
| 28                                                           | Punjab                                 | 0.00            | 1473.41         | 576.83         | 208.30          | 983.37          | 3709.73          | 0.24           | 6951.88          |
| 29                                                           | Rajasthan                              | 6493.19         | 17219.88        | 378.40         | 0.00            | 7.85            | 481.84           | 0.00           | 24581.15         |
| 30                                                           | Sikkim                                 | 0.00            | 0.00            | 0.00           | 0.00            | 12.35           | 11493.90         | 0.00           | 11506.25         |
| 31                                                           | Tamil Nadu                             | 15821.18        | 7172.88         | 116.66         | 657.40          | 293.17          | 5212.07          | 0.00           | 29273.35         |
| 32                                                           | Telangana                              | 275.69          | 6536.94         | 111.13         | 103.95          | 91.00           | 5626.63          | 227.20         | 12972.52         |
| 33                                                           | Tripura                                | 0.00            | 6.18            | 0.00           | 0.00            | 1.44            | 0.00             | 0.00           | 7.62             |
| 34                                                           | Uttar Pradesh                          | 0.00            | 2900.41         | 85.20          | 3160.39         | 162.54          | 1402.68          | 20.40          | 7731.62          |
| 35                                                           | Uttarakhand                            | 0.00            | 301.60          | 0.00           | 244.02          | 326.70          | 14332.13         | 0.00           | 15204.45         |
| 36                                                           | West Bengal                            | 0.00            | 98.24           | 0.00           | 0.00            | 152.90          | 3189.84          | 1593.96        | 5034.93          |
|                                                              | <b>Total</b>                           | <b>68640.07</b> | <b>73483.94</b> | <b>3482.69</b> | <b>12573.88</b> | <b>10463.55</b> | <b>151627.33</b> | <b>2268.17</b> | <b>322539.63</b> |
| <b>* Large hydro generation Excluding Import from Bhutan</b> |                                        |                 |                 |                |                 |                 |                  |                |                  |

State-wise and source wise details of RE generation for the year 2022-23

| [in Million Units (MU)]                               |                                          |          |           |         |          |             |              |         |           |
|-------------------------------------------------------|------------------------------------------|----------|-----------|---------|----------|-------------|--------------|---------|-----------|
| S. No.                                                | Name of State/ UT                        | Wind     | Solar     | Biomass | Bagasse  | Small Hydro | Large Hydro* | Others  | Total     |
| 1                                                     | Andaman & Nicobar Islands                | 0.00     | 23.94     | 0.00    | 0.00     | 13.94       | 0.00         | 0.00    | 37.88     |
| 2                                                     | Andhra Pradesh                           | 7426.46  | 8140.72   | 54.86   | 99.93    | 410.90      | 3747.58      | 279.04  | 20159.49  |
| 3                                                     | Arunachal Pradesh                        | 0.00     | 22.27     | 0.00    | 0.00     | 2.55        | 4820.94      | 0.03    | 4845.79   |
| 4                                                     | Assam                                    | 0.00     | 216.35    | 0.00    | 0.00     | 62.66       | 481.60       | 0.00    | 760.61    |
| 5                                                     | Bihar                                    | 0.00     | 169.53    | 0.00    | 106.68   | 12.63       | 0.00         | 0.00    | 288.85    |
| 6                                                     | Chandigarh                               | 0.00     | 12.61     | 0.00    | 0.00     | 0.00        | 0.00         | 0.00    | 12.61     |
| 7                                                     | Chhattisgarh                             | 0.00     | 635.42    | 1194.60 | 17.10    | 155.92      | 237.37       | 0.00    | 2240.42   |
| 8                                                     | Dadra and Nagar Haveli and Daman and Diu | 0.00     | 27.40     | 3.22    | 0.00     | 0.00        | 0.00         | 0.00    | 30.62     |
| 9                                                     | Delhi                                    | 0.00     | 236.11    | 0.00    | 0.00     | 0.00        | 0.00         | 294.09  | 530.20    |
| 10                                                    | Goa                                      | 0.00     | 14.87     | 0.00    | 0.00     | 0.00        | 0.00         | 5.09    | 19.96     |
| 11                                                    | Gujarat                                  | 19206.22 | 10335.32  | 0.00    | 5.76     | 213.10      | 6133.14      | 2.24    | 35895.77  |
| 12                                                    | Haryana                                  | 0.00     | 555.20    | 356.07  | 203.01   | 241.90      | 0.00         | 63.55   | 1419.73   |
| 13                                                    | Himachal Pradesh                         | 0.00     | 58.76     | 0.00    | 0.00     | 2854.07     | 38666.98     | 0.00    | 41579.81  |
| 14                                                    | Jammu & Kashmir                          | 0.00     | 0.00      | 0.00    | 0.00     | 393.20      | 16777.42     | 0.00    | 17170.62  |
| 15                                                    | Jharkhand                                | 0.00     | 19.70     | 0.00    | 0.00     | 2.40        | 305.47       | 0.00    | 327.57    |
| 16                                                    | Karnataka                                | 9967.89  | 14153.79  | 106.90  | 3037.31  | 2308.59     | 13157.34     | 0.00    | 42731.82  |
| 17                                                    | Kerala                                   | 179.32   | 879.75    | 0.00    | 62.85    | 824.34      | 7989.00      | 0.00    | 9935.26   |
| 18                                                    | Ladakh                                   | 0.00     | 0.00      | 0.00    | 0.00     | 0.00        | 402.78       | 0.00    | 402.78    |
| 19                                                    | Lakshadweep                              | 0.00     | 0.10      | 0.00    | 0.00     | 0.00        | 0.00         | 0.00    | 0.10      |
| 20                                                    | Madhya Pradesh                           | 4486.72  | 3839.30   | 38.76   | 113.05   | 357.97      | 7309.07      | 36.93   | 16181.79  |
| 21                                                    | Maharashtra                              | 7243.06  | 4387.85   | 236.48  | 4572.03  | 766.73      | 5894.29      | 0.44    | 23100.88  |
| 22                                                    | Manipur                                  | 0.00     | 8.17      | 0.00    | 0.00     | 0.00        | 477.98       | 0.63    | 486.77    |
| 23                                                    | Meghalaya                                | 0.00     | 0.00      | 0.00    | 0.00     | 72.16       | 980.25       | 0.00    | 1052.41   |
| 24                                                    | Mizoram                                  | 0.00     | 3.21      | 0.00    | 0.00     | 59.06       | 204.13       | 0.00    | 266.40    |
| 25                                                    | Nagaland                                 | 0.00     | 0.00      | 0.00    | 0.00     | 111.95      | 177.37       | 0.00    | 289.32    |
| 26                                                    | Odisha                                   | 0.00     | 706.24    | 60.95   | 0.00     | 424.92      | 5462.81      | 0.00    | 6654.91   |
| 27                                                    | Puducherry                               | 0.00     | 12.24     | 0.00    | 0.00     | 0.00        | 0.00         | 0.00    | 12.24     |
| 28                                                    | Punjab                                   | 0.00     | 2778.66   | 497.68  | 210.76   | 682.48      | 4399.65      | 0.00    | 8569.23   |
| 29                                                    | Rajasthan                                | 6111.41  | 34474.43  | 397.05  | 0.00     | 7.17        | 967.43       | 0.00    | 41957.48  |
| 30                                                    | Sikkim                                   | 0.00     | 0.00      | 0.00    | 0.00     | 12.35       | 11696.79     | 0.00    | 11709.14  |
| 31                                                    | Tamil Nadu                               | 16913.85 | 9419.39   | 126.93  | 869.56   | 296.71      | 5965.77      | 0.00    | 33592.22  |
| 32                                                    | Telangana                                | 279.23   | 6745.46   | 21.48   | 132.94   | 91.71       | 6010.07      | 159.08  | 13439.96  |
| 33                                                    | Tripura                                  | 0.00     | 6.58      | 0.00    | 0.00     | 0.00        | 0.00         | 0.00    | 6.58      |
| 34                                                    | Uttar Pradesh                            | 0.00     | 3674.02   | 66.35   | 3183.67  | 234.69      | 974.04       | 58.45   | 8191.22   |
| 35                                                    | Uttarakhand                              | 0.00     | 331.80    | 0.00    | 248.52   | 352.07      | 15435.77     | 0.00    | 16368.16  |
| 36                                                    | West Bengal                              | 0.00     | 125.04    | 0.00    | 0.00     | 204.44      | 3423.73      | 1629.64 | 5382.85   |
|                                                       | Total                                    | 71814.16 | 102014.24 | 3161.32 | 12863.16 | 11170.61    | 162098.77    | 2529.18 | 365651.45 |
| * Large hydro generation Excluding Import from Bhutan |                                          |          |           |         |          |             |              |         |           |

State-wise and source wise details of RE generation for the year 2023-24

| [in Million Units (MU)]                                      |                                          |                 |                  |                |                 |                |                  |                |                  |
|--------------------------------------------------------------|------------------------------------------|-----------------|------------------|----------------|-----------------|----------------|------------------|----------------|------------------|
| S. No.                                                       | Name of State/ UT                        | Wind            | Solar            | Biomass        | Bagasse         | Small Hydro    | Large Hydro*     | Others         | Total            |
| 1                                                            | Andaman & Nicobar Islands                | 0.00            | 27.50            | 0.00           | 0.00            | 12.00          | 0.00             | 0.00           | 39.50            |
| 2                                                            | Andhra Pradesh                           | 8644.00         | 8300.03          | 18.75          | 66.63           | 127.10         | 1373.19          | 307.97         | 18837.67         |
| 3                                                            | Arunachal Pradesh                        | 0.00            | 1.89             | 0.00           | 0.00            | 0.66           | 4278.18          | 0.00           | 4280.73          |
| 4                                                            | Assam                                    | 0.00            | 316.31           | 0.00           | 0.00            | 64.20          | 614.70           | 0.75           | 995.96           |
| 5                                                            | Bihar                                    | 0.00            | 195.19           | 0.00           | 140.98          | 5.92           | 0.00             | 0.00           | 342.08           |
| 6                                                            | Chandigarh                               | 0.00            | 11.70            | 0.00           | 0.00            | 0.00           | 0.00             | 0.00           | 11.70            |
| 7                                                            | Chhattisgarh                             | 0.00            | 943.75           | 1368.61        | 19.54           | 145.54         | 321.76           | 0.00           | 2799.20          |
| 8                                                            | Dadra and Nagar Haveli and Daman and Diu | 0.00            | 15.74            | 13.12          | 0.00            | 0.00           | 0.00             | 0.00           | 28.86            |
| 9                                                            | Delhi                                    | 0.00            | 206.53           | 0.00           | 0.00            | 0.00           | 0.00             | 522.28         | 728.81           |
| 10                                                           | Goa                                      | 0.00            | 59.99            | 0.00           | 0.00            | 0.00           | 0.00             | 7.96           | 67.95            |
| 11                                                           | Gujarat                                  | 24794.50        | 13468.91         | 0.00           | 2.13            | 217.68         | 4556.33          | 0.00           | 43039.55         |
| 12                                                           | Haryana                                  | 0.00            | 992.91           | 294.12         | 83.60           | 222.05         | 0.00             | 58.82          | 1651.50          |
| 13                                                           | Himachal Pradesh                         | 0.00            | 59.54            | 0.00           | 0.00            | 2526.98        | 36365.85         | 0.00           | 38952.37         |
| 14                                                           | Jammu & Kashmir                          | 0.00            | 0.00             | 0.00           | 0.00            | 408.69         | 15874.24         | 0.00           | 16282.93         |
| 15                                                           | Jharkhand                                | 0.00            | 17.64            | 0.00           | 0.00            | 5.52           | 196.80           | 0.00           | 219.96           |
| 16                                                           | Karnataka                                | 10950.20        | 15404.09         | 47.45          | 2754.06         | 1370.76        | 8973.17          | 0.00           | 39499.72         |
| 17                                                           | Kerala                                   | 214.53          | 1195.28          | 0.00           | 78.08           | 716.31         | 5155.72          | 0.04           | 7359.96          |
| 18                                                           | Ladakh                                   | 0.00            | 0.00             | 0.00           | 0.00            | 0.00           | 388.48           | 0.00           | 388.48           |
| 19                                                           | Lakshadweep                              | 0.00            | 0.09             | 0.00           | 0.00            | 0.00           | 0.00             | 0.00           | 0.09             |
| 20                                                           | Madhya Pradesh                           | 4949.78         | 4025.19          | 84.62          | 97.01           | 469.60         | 6444.78          | 28.83          | 16099.80         |
| 21                                                           | Maharashtra                              | 8228.97         | 5814.13          | 304.61         | 3495.82         | 888.48         | 5264.49          | 33.40          | 24029.90         |
| 22                                                           | Manipur                                  | 0.00            | 7.73             | 0.00           | 0.00            | 0.00           | 298.18           | 1.23           | 307.14           |
| 23                                                           | Meghalaya                                | 0.00            | 0.00             | 0.00           | 0.00            | 66.55          | 808.58           | 0.00           | 875.13           |
| 24                                                           | Mizoram                                  | 0.00            | 3.19             | 0.00           | 0.00            | 95.93          | 118.63           | 0.00           | 217.74           |
| 25                                                           | Nagaland                                 | 0.00            | 0.00             | 0.00           | 0.00            | 81.14          | 165.47           | 0.00           | 246.61           |
| 26                                                           | Odisha                                   | 0.00            | 757.69           | 96.07          | 0.00            | 407.97         | 6162.20          | 0.00           | 7423.92          |
| 27                                                           | Puducherry                               | 0.00            | 12.24            | 0.00           | 0.00            | 0.00           | 0.00             | 0.00           | 12.24            |
| 28                                                           | Punjab                                   | 0.00            | 2673.99          | 613.44         | 197.99          | 636.97         | 4676.42          | 0.00           | 8798.82          |
| 29                                                           | Rajasthan                                | 8390.67         | 38363.28         | 387.55         | 0.00            | 7.45           | 1013.97          | 0.00           | 48162.93         |
| 30                                                           | Sikkim                                   | 0.00            | 0.00             | 0.00           | 0.00            | 12.35          | 8609.86          | 0.00           | 8622.21          |
| 31                                                           | Tamil Nadu                               | 16908.08        | 11737.48         | 129.14         | 622.61          | 206.00         | 3563.28          | 0.00           | 33166.59         |
| 32                                                           | Telangana                                | 304.63          | 6884.68          | 10.57          | 95.08           | 58.87          | 1243.29          | 155.29         | 8752.39          |
| 33                                                           | Tripura                                  | 0.00            | 7.01             | 0.00           | 0.00            | 0.00           | 0.00             | 0.00           | 7.01             |
| 34                                                           | Uttar Pradesh                            | 0.00            | 3971.31          | 46.65          | 2923.55         | 175.24         | 850.64           | 84.85          | 8052.23          |
| 35                                                           | Uttarakhand                              | 0.00            | 331.80           | 0.00           | 248.52          | 350.62         | 13919.23         | 0.00           | 14850.17         |
| 36                                                           | West Bengal                              | 0.00            | 168.32           | 2.49           | 0.00            | 204.46         | 2816.49          | 1545.13        | 4736.88          |
|                                                              | <b>Total</b>                             | <b>83385.35</b> | <b>115975.11</b> | <b>3417.19</b> | <b>10825.59</b> | <b>9485.04</b> | <b>134053.93</b> | <b>2746.55</b> | <b>359888.76</b> |
| <b>* Large hydro generation Excluding Import from Bhutan</b> |                                          |                 |                  |                |                 |                |                  |                |                  |

Source: Central Electricity Authority (CEA)