

GOVERNMENT OF INDIA  
MINISTRY OF POWER

RAJYA SABHA  
UNSTARRED QUESTION NO.951  
ANSWERED ON 08.12.2025

**OPERATIONAL STATUS OF THERMAL POWER PLANTS**

**951 SHRI SATNAM SINGH SANDHU:**

Will the Minister of **POWER** be pleased to state:

- (a) the total number of thermal power plants currently operational in the country, along with their State-wise and capacity-wise details;
- (b) the details of new thermal power plants commissioned during the last five years and those under construction or in the pipeline;
- (c) the total installed capacity of thermal power generation in the country and its share in the overall energy mix;
- (d) whether Government has any plan to modernize or phase out old and inefficient thermal power plants and if so, the details thereof; and
- (e) the steps taken to reduce carbon emissions and environmental impact of coal-based thermal power generation?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a):** The total number of thermal power plants currently operational in the country is 280 and their State-wise, Plant-wise and Capacity-wise details are given at **Annexure-I**.

**(b):** Thermal capacities of 27,709 MW have been commissioned during the last five years and in current year till 30.11.2025 and their details are given at **Annexure-II**. In addition, 40,345 MW of thermal capacity is currently under construction and their details are given at **Annexure-III**.

Further, contracts of 22,920 MW thermal capacity have been awarded and is due for construction and their details are given at **Annexure-IV**. Thermal Capacity of 5,320 MW is under bidding/pipeline and their details are given at **Annexure-V**.

**(c):** As on 31.10.2025, the total installed capacity of thermal power generation in the country and its share in the overall energy mix are given below:

| Category    |                                  | Installed Capacity (MW) | % Share in Total |
|-------------|----------------------------------|-------------------------|------------------|
| Fossil Fuel | Coal                             | 2,18,258                | 43.22%           |
|             | Lignite                          | 6,620                   | 1.31%            |
|             | Gas                              | 20,132                  | 3.99%            |
|             | Deisel                           | 589                     | 0.12%            |
|             | Total Fossil Fuel Based Capacity | 2,45,600                | 48.63%           |

**(d):** The Central Electricity Authority (CEA) has issued an advisory dated 20.01.2023 and 07.07.2023 to all Thermal Power Utilities not to retire or repurpose their coal-based power stations before 2030 and to ensure the availability of thermal units after carrying out Renovation and Modernization(R&M) activities, if required, considering the expected energy demand scenario in future.

Further, electricity generation is a de-licensed activity as per Section-7 of the Electricity Act, 2003 and phasing out/ retirement of units are decided by Power Generating Utilities /Companies based on their own techno-economic and environmental considerations.

**(e):** In order to reduce carbon emissions and environmental impact of coal-based thermal power generation, the Government is taking following steps:

- (i) Ministry of Power is promoting installation of efficient Supercritical/ Ultra Supercritical units which are more efficient and leading to reduced CO<sub>2</sub> emission per unit of electricity generation. A total capacity of Supercritical/ Ultra-supercritical units of 70,190 MW (101 Units) and 7,680 MW (11 units) have been commissioned respectively till 31.10.2025
- (ii) To improve the energy efficiency, the Perform Achieve and Trade (PAT) scheme has been implemented in various thermal power plants. Improvement in energy efficiency reduces carbon dioxide emission in thermal power generation.
- (iii) Ministry of Power has issued a comprehensive policy on 07.11.2025 for co-firing of Bio-mass pellets [including torrefied charcoal made from Municipal Solid Waste (MSW)] in Coal Based Power Plants to use 5-7% blend of biomass pellets and/or MSW-based torrefied charcoal along with coal, after assessing the technical feasibility.
- (iv.) Reduction of Stack Emissions - MoEF&CC vide notification dated 07.12.2015 and its subsequent amendments has notified norms in respect of reducing stack emissions such as Suspended Particulate Matter (SPM), SO<sub>x</sub>&NO<sub>x</sub> from coal based Thermal Power Plants. To meet these standards, Thermal Power Plants are using techniques like Electro Static Precipitator (ESP), Flue Gas Desulphurization (FGD), NO<sub>x</sub> Combustion Modification etc.
- (v) NTPC Ltd. has commissioned a 20 TonnesPer Day (TPD) capacity Pilot Carbon Capture Project at its Vindhayachal Thermal Power Station

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**ANNEXURE REFERRED IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 951  
ANSWERED IN THE RAJYA SABHA ON 08.12.2025**

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**State-wise & Capacity-wise Thermal Power Stations as on 31.10.2025**

| Sl No | Thermal Power Station           | Capacity (in MW) |
|-------|---------------------------------|------------------|
|       | <b>Andaman &amp; Nicobar</b>    | <b>92.71</b>     |
| 1     | AND. NICOBAR DG                 | 57.52            |
| 2     | AND. NICOBAR Pvt. DG            | 35.19            |
|       | <b>Andhra Pradesh</b>           | <b>15,666.2</b>  |
| 3     | DAMODARAM SANJEEVAIAH TPS       | 2,400            |
| 4     | Dr. N.TATA RAO TPS              | 2,560            |
| 5     | GAUTAMI CCPP                    | 0                |
| 6     | GODAVARI CCPP                   | 0                |
| 7     | GREL CCPP (Rajahmundry)         | 768              |
| 8     | JEGURUPADU CCPP PH I            | 235.4            |
| 9     | JEGURUPADU CCPP PH II           | 0                |
| 10    | JINDAL POWER LIMITED SIMHAPURI  | 600              |
| 11    | KONASEEMA CCPP                  | 0                |
| 12    | KONDAPALLI CCPP                 | 0                |
| 13    | KONDAPALLI EXTN CCPP            | 366              |
| 14    | KONDAPALLI ST-3 CCPP            | 0                |
| 15    | LVS POWER DG                    | 36.8             |
| 16    | PAINAMPURAM TPP                 | 1320             |
| 17    | PEDDAPURAM CCPP                 | 0                |
| 18    | RAYALASEEMA TPS                 | 1650             |
| 19    | SGPL TPP                        | 1320             |
| 20    | SIMHADRI                        | 2,000            |
| 21    | THAMMINAPATNAM TPS              | 1,000            |
| 22    | VEMAGIRI CCPP                   | 370              |
| 23    | VIJJESWARAM CCPP                | 0                |
| 24    | VIZAG TPP                       | 1,040            |
|       | <b>Assam</b>                    | <b>1,347.355</b> |
| 25    | BONGAIGAON TPP                  | 750              |
| 26    | KATHALGURI CCPP                 | 291              |
| 27    | LAKWA GT                        | 97.2             |
| 28    | LAKWA REPLACEMENT POWER PROJECT | 69.7             |
| 29    | NAMRUP CCPP                     | 139.4            |
|       | <b>Bihar</b>                    | <b>9,510</b>     |
| 30    | BARAUNI TPS                     | 500              |
| 31    | BARH STPS                       | 3,300            |
| 32    | KAHALGAON TPS                   | 2,340            |
| 33    | MUZAFFARPUR TPS                 | 390              |
| 34    | NABINAGAR STPP                  | 1,980            |

|                     |   |                  |
|---------------------|---|------------------|
| 35                  | NABINAGAR TPP                           | 1,000            |
| <b>Chhattisgarh</b> |   | <b>24,093</b>    |
| 36                  | ADANI POWER LIMITED RAIGARH TPP         | 600              |
| 37                  | ADANI POWER LIMITED RAIPUR TPP          | 1,370            |
| 38                  | AKALTARA TPS                            | 1,800            |
| 39                  | BALCO TPS                               | 600              |
| 40                  | BANDAKHAR TPP                           | 300              |
| 41                  | BARADARHA TPS                           | 1,200            |
| 42                  | BHILAI TPS                              | 500              |
| 43                  | BINJKOTE TPP                            | 600              |
| 44                  | CHAKABURA TPP                           | 30               |
| 45                  | DSPM TPS                                | 500              |
| 46                  | KASAIPALLI TPP                          | 270              |
| 47                  | KATGHORA TPP                            | 0                |
| 48                  | KORBA STPS                              | 2,600            |
| 49                  | KORBA-WEST TPS                          | 1,340            |
| 50                  | LARA TPP                                | 1,600            |
| 51                  | MARWA TPS                               | 1,000            |
| 52                  | NAWAPARA TPP                            | 600              |
| 53                  | OP JINDAL TPS                           | 1,000            |
| 54                  | PATHADI TPP                             | 600              |
| 55                  | RATIJA TPS                              | 100              |
| 56                  | SALORA TPP                              | 0                |
| 57                  | SIPAT STPS                              | 2,980            |
| 58                  | SVPL TPP                                | 63               |
| 59                  | SWASTIK KORBA TPP                       | 0                |
| 60                  | TAMNAR TPP                              | 2,400            |
| 61                  | UCHPINDA TPP                            | 1,440            |
| 62                  | Vedanta Ltd Chhattisgarh TPP            | 600              |
| <b>Delhi</b>        |   | <b>2,100.4</b>   |
| 63                  | I.P.CCPP                                | 270              |
| 64                  | PRAGATI CCGT-III                        | 1,500            |
| 65                  | PRAGATI CCPP                            | 330.4            |
| 66                  | RITHALA CCPP                            | 0                |
| <b>Goa</b>          |   | <b>0</b>         |
| 67                  | GOA CCPP (Liq.)                         | 0                |
| <b>Gujarat</b>      |   | <b>22,672.31</b> |
| 68                  | ADANI POWER LIMITED MUNDRA TPP – I & II | 2,640            |
| 69                  | ADANI POWER LIMITED MUNDRA TPP – III    | 1,980            |
| 70                  | AKRIMOTA LIG TPS                        | 250              |
| 71                  | BARODA CCPP                             | 0                |
| 72                  | BHAVNAGAR CFBC TPP                      | 500              |
| 73                  | DGEN MEGA CCPP                          | 1,200            |
| 74                  | DHUVARAN CCPP                           | 594.72           |

|                            |                               |                 |
|----------------------------|-------------------------------|-----------------|
| 75                         | ESSAR CCPP                    | 515             |
| 76                         | GANDHAR CCPP                  | 657.39          |
| 77                         | GANDHI NAGAR TPS              | 630             |
| 78                         | HAZIRA CCPP                   | 0               |
| 79                         | HAZIRA CCPP EXT               | 351             |
| 80                         | KAWAS CCPP                    | 656.2           |
| 81                         | KUTCH LIG. TPS                | 150             |
| 82                         | MUNDRA UMTPP                  | 4,000           |
| 83                         | PIPAVAV CCPP                  | 702             |
| 84                         | SABARMATI (D-F STATIONS)      | 362             |
| 85                         | SALAYA TPP                    | 1,200           |
| 86                         | SIKKA REP. TPS                | 500             |
| 87                         | SUGEN CCPP                    | 1,147.5         |
| 88                         | SURAT LIG. TPS                | 500             |
| 89                         | UKAI TPS                      | 1,110           |
| 90                         | UNOSUGEN CCPP                 | 382.5           |
| 91                         | UTRAN CCPP                    | 374             |
| 92                         | WANAKBORI TPS                 | 2,270           |
| <b>Haryana</b>             |                               | <b>5,761.59</b> |
| 93                         | FARIDABAD CCPP                | 431.59          |
| 94                         | INDIRA GANDHI STPP            | 1,500           |
| 95                         | MAHATMA GANDHI TPS            | 1,320           |
| 96                         | PANIPAT TPS                   | 710             |
| 97                         | RAJIV GANDHI TPS              | 1,200           |
| 98                         | YAMUNA NAGAR TPS              | 600             |
| <b>Jammu &amp; Kashmir</b> |                               | <b>0</b>        |
| 99                         | PAMPORE GPS (Liq.)            | 0               |
| <b>Jharkhand</b>           |                               | <b>7,030</b>    |
| 100                        | BOKARO TPS 'A' EXP            | 500             |
| 101                        | CHANDRAPURA(DVC) TPS          | 500             |
| 102                        | JOJOBERA TPS                  | 240             |
| 103                        | KODARMA TPP                   | 1,000           |
| 104                        | MAHADEV PRASAD STPP           | 540             |
| 105                        | MAITHON RB TPP                | 1,050           |
| 106                        | NORTH KARANPURA STPP          | 1,980           |
| 107                        | PATRATU STPP                  | 800             |
| 108                        | TENUGHAT TPS                  | 420             |
| <b>Karnataka</b>           |                               | <b>9,875.25</b> |
| 109                        | ADANI POWER LIMITED UDUPI TPP | 1,200           |
| 110                        | BELLARY DG                    | 25.2            |
| 111                        | BELLARY TPS                   | 1,700           |
| 112                        | KUDGI STPP                    | 2,400           |
| 113                        | RAICHUR TPS                   | 1,720           |
| 114                        | TORANGALLU TPS(SBU-I)         | 260             |
| 115                        | TORANGALLU TPS(SBU-II)        | 600             |
| 116                        | YELAHANKA CCPP                | 370.05          |

|                       |                                |                  |
|-----------------------|--------------------------------|------------------|
| 117                   | YERMARUS TPP                   | 1600             |
| <b>Kerala</b>         |                                | <b>519.54</b>    |
| 118                   | BRAMHAPURAM DG                 | 63.96            |
| 119                   | COCHIN CCPP (Liq.)             | 0                |
| 120                   | KOZHIKODE DG                   | 96               |
| 121                   | R. GANDHI CCPP (Liq.)          | 359.58           |
| <b>Lakshadweep</b>    |                                | <b>26.83</b>     |
| 122                   | Lakshadweep DG                 | 26.83            |
| <b>Madhya Pradesh</b> |                                | <b>21,170</b>    |
| 123                   | AMARKANTAK EXT TPS             | 210              |
| 124                   | ANUPPUR TPP                    | 1,250            |
| 125                   | BINA TPS                       | 500              |
| 126                   | GADARWARA TPP                  | 1,600            |
| 127                   | KHARGONE STPP                  | 1,320            |
| 128                   | MAHAN TPP                      | 1,200            |
| 129                   | NIGRI TPP                      | 1,320            |
| 130                   | NIWARI TPP                     | 90               |
| 131                   | SANJAY GANDHI TPS              | 1,340            |
| 132                   | SASAN UMTPP                    | 3,960            |
| 133                   | SATPURA TPS                    | 500              |
| 134                   | SEIONI TPP                     | 600              |
| 135                   | SHREE SINGAJI TPP              | 2,520            |
| 136                   | VINDHYACHAL STPS               | 4,760            |
| <b>Maharashtra</b>    |                                | <b>26,135.08</b> |
| 137                   | ADANI POWER LIMITED TIRODA TPP | 3,300            |
| 138                   | AMRAVATI TPS                   | 1,350            |
| 139                   | BELA TPS                       | 270              |
| 140                   | BHUSAVAL TPS                   | 1,870            |
| 141                   | BUTIBORI TPP                   | 600              |
| 142                   | CHANDRAPUR(MAHARASHTRA) STPS   | 2,920            |
| 143                   | DAHANU TPS                     | 500              |
| 144                   | DHARIWAL TPP                   | 600              |
| 145                   | GEPL TPP Ph-I                  | 120              |
| 146                   | GMR WARORA TPS                 | 600              |
| 147                   | JSW RATNAGIRI TPP              | 300              |
| 148                   | KHAPARKHEDA TPS                | 1,340            |
| 149                   | KORADI TPS                     | 2,190            |
| 150                   | MANGAON CCPP                   | 0                |
| 151                   | MAUDA TPS                      | 2,320            |
| 152                   | MIHAN TPS                      | 246              |
| 153                   | NASIK (P) TPS                  | 0                |
| 154                   | NASIK TPS                      | 630              |
| 155                   | PARAS TPS                      | 500              |
| 156                   | PARLI TPS                      | 750              |

|                   |                                     |                   |
|-------------------|-------------------------------------|-------------------|
| 157               | RATNAGIRI CCPP                      | 1,967.08          |
| 158               | SHIRPUR TPP                         | 300               |
| 159               | SOLAPUR STPS                        | 1,320             |
| 160               | TROMBAY CCPP                        | 180               |
| 161               | TROMBAY TPS                         | 750               |
| 162               | URAN CCPP                           | 672               |
| 163               | WARDHA WARORA TPP                   | 540               |
| <b>Manipur</b>    |                                     | <b>36</b>         |
| 164               | LEIMAKHONG DG                       | 36                |
| <b>Odisha</b>     |                                     | <b>9,950</b>      |
| 165               | DARLIPALI STPS                      | 1,600             |
| 166               | DERANG TPP                          | 1,200             |
| 167               | IB VALLEY TPS                       | 1,740             |
| 168               | JSW Energy Utkal Limited            | 700               |
| 169               | KAMALANGA TPS                       | 1,050             |
| 170               | Maadurga Thermal Power Company Ltd. | 60                |
| 171               | TALCHER STPS                        | 3,000             |
| 172               | VEDANTA TPP                         | 600               |
| <b>Puducherry</b> |                                     | <b>32.5</b>       |
| 173               | KARAIKAL CCPP                       | 32.5              |
| <b>Punjab</b>     |                                     | <b>5,680</b>      |
| 174               | GH TPS (LEH.MOH.)                   | 920               |
| 175               | GOINDWAL SAHIB TPP                  | 540               |
| 176               | RAJPURA TPP                         | 1,400             |
| 177               | ROPAR TPS                           | 840               |
| 178               | TALWANDI SABO TPP                   | 1,980             |
| <b>Rajasthan</b>  |                                     | <b>11,802.83</b>  |
| 179               | ADANI POWER LIMITED KAWAI TPP       | 1,320             |
| 180               | ANTA CCPP                           | 419.33            |
| 181               | BARSINGSAR LIGNITE                  | 250               |
| 182               | CHHABRA-I PH-1 TPP                  | 500               |
| 183               | CHHABRA-I PH-2 TPP                  | 500               |
| 184               | CHHABRA-II TPP                      | 1,320             |
| 185               | DHOLPUR CCPP                        | 330               |
| 186               | GIRAL TPS                           | 250               |
| 187               | JALIPA KAPURDI TPP                  | 1,080             |
| 188               | KALISINDH TPS                       | 1,200             |
| 189               | KOTA TPS                            | 1,240             |
| 190               | RAMGARH CCPP                        | 273.5             |
| 191               | SHREE CEMENT LTD TPS                | 300               |
| 192               | SURATGARH STPS                      | 1,320             |
| 193               | SURATGARH TPS                       | 1,500             |
| <b>Tamil Nadu</b> |                                     | <b>15,228.781</b> |
| 194               | BASIN BRIDGE GT (Liq.)              | 120               |
| 195               | ITPCL TPP                           | 1,200             |
| 196               | KARUPPUR CCPP                       | 0                 |
| 197               | KOVIKALPAL CCPP                     | 107.88            |

|                      |                                      |                  |
|----------------------|--------------------------------------|------------------|
| 198                  | KUTTALAM CCPP                        | 100              |
| 199                  | METTUR TPS                           | 840              |
| 200                  | METTUR TPS-II                        | 600              |
| 201                  | MUTHIARA TPP                         | 1,200            |
| 202                  | NARIMANAM GPS                        | 10               |
| 203                  | NEYVELI ( EXT) TPS                   | 420              |
| 204                  | NEYVELI NEW TPP                      | 1,000            |
| 205                  | NEYVELI TPS(Z)                       | 250              |
| 206                  | NEYVELI TPS-II                       | 1,470            |
| 207                  | NEYVELI TPS-II EXP                   | 500              |
| 208                  | NORTH CHENNAI TPS STAGE 1            | 630              |
| 209                  | NORTH CHENNAI TPS STAGE 2            | 1,200            |
| 210                  | NTPL TUTICORIN TPP                   | 1,000            |
| 211                  | OPG Power Generation Private Limited | 414              |
| 212                  | P.NALLUR CCPP                        | 330.5            |
| 213                  | SAMALPATTI DG                        | 105.7            |
| 214                  | SAMAYANALLUR DG                      | 106.001          |
| 215                  | TCP Limited                          | 63.5             |
| 216                  | TUTICORIN (P) TPP                    | 300              |
| 217                  | TUTICORIN TPP ST-IV                  | 525              |
| 218                  | TUTICORIN TPS                        | 1,050            |
| 219                  | VALANTARVY CCPP                      | 0                |
| 220                  | VALLUR TPP                           | 1,500            |
| 221                  | VALUTHUR CCPP                        | 186.2            |
| <b>Telangana</b>     |                                      | <b>11,042.5</b>  |
| 222                  | BHADRADRI TPP                        | 1,080            |
| 223                  | KAKATIYA TPS                         | 1,100            |
| 224                  | KOTHAGUDEM TPS (NEW)                 | 1,000            |
| 225                  | KOTHAGUDEM TPS (STAGE-7)             | 800              |
| 226                  | RAMAGUNDEM STPS                      | 2,600            |
| 227                  | RAMAGUNDEM-B TPS                     | 62.5             |
| 228                  | SINGARENI TPP                        | 1,200            |
| 229                  | TELANGANA STPP PH-1                  | 1,600            |
| 230                  | YADADRI TPS                          | 1,600            |
| <b>Tripura</b>       |                                      | <b>1,067.6</b>   |
| 231                  | AGARTALA GT                          | 135              |
| 232                  | BARAMURA GT                          | 42               |
| 233                  | MONARCHAK CCPP                       | 101              |
| 234                  | ROKHIA GT                            | 63               |
| 235                  | TRIPURA CCPP                         | 726.6            |
| <b>Uttar Pradesh</b> |                                      | <b>30,848.14</b> |
| 236                  | ANPARA C TPS                         | 1,200            |
| 237                  | ANPARA TPS                           | 2,630            |
| 238                  | AURAIYA CCPP                         | 663.36           |
| 239                  | BARKHERA TPS                         | 90               |
| 240                  | DADRI (NCTPP)                        | 1,820            |
| 241                  | DADRI CCPP                           | 829.78           |

|                    |                    |                     |
|--------------------|--------------------|---------------------|
| 242                | GHATAMPUR TPP      | 660                 |
| 243                | HARDUAGANJ TPS     | 1,265               |
| 244                | JAWAHARPUR STPP    | 1,320               |
| 245                | KHAMBARKHERA TPS   | 90                  |
| 246                | KHURJA STPP        | 1,320               |
| 247                | KUNDARKI TPS       | 90                  |
| 248                | LALITPUR TPS       | 1,980               |
| 249                | MAQSOODPUR TPS     | 90                  |
| 250                | MEJA STPP          | 1,320               |
| 251                | OBRA TPS           | 2,320               |
| 252                | PANKI TPS EXT      | 660                 |
| 253                | PARICHHA TPS       | 920                 |
| 254                | PRAYAGRAJ TPP      | 1,980               |
| 255                | RIHAND STPS        | 3,000               |
| 256                | ROSA TPP Ph-I      | 1,200               |
| 257                | SINGRAULI STPS     | 2,000               |
| 258                | TANDA TPS          | 1,760               |
| 259                | UNCHAHAR TPS       | 1,550               |
| 260                | UTRAULA TPS        | 90                  |
| <b>Uttarakhand</b> |                    | <b>664</b>          |
| 261                | GAMA CCP           | 225                 |
| 262                | SRAVANTHI CCP      | 439                 |
| <b>West Bengal</b> |                    | <b>13,247</b>       |
| 263                | BAKRESWAR TPS      | 1,050               |
| 264                | BANDEL TPS         | 270                 |
| 265                | BUDGE BUDGE TPS    | 750                 |
| 266                | D.P.L. TPS         | 550                 |
| 267                | DISHERGARH TPP     | 12                  |
| 268                | DURGAPUR STEEL TPS | 1,000               |
| 269                | FARAKKA STPS       | 2,100               |
| 270                | HALDIA GT (Liq.)   | 0                   |
| 271                | HALDIA TPP         | 600                 |
| 272                | HIRANMAYE TPP      | 300                 |
| 273                | KASBA GT (Liq.)    | 0                   |
| 274                | KOLAGHAT TPS       | 840                 |
| 275                | MEJIA TPS          | 2,340               |
| 276                | RAGHUNATHPUR TPP   | 1,200               |
| 277                | SAGARDIGHI TPS     | 1,600               |
| 278                | SANTALDIH TPS      | 500                 |
| 279                | SOUTHERN REPL. TPS | 135                 |
| 280                | TITAGARH TPS       | 0                   |
| <b>Grand Total</b> |                    | <b>2,45,599.616</b> |

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**ANNEXURE-II**

**ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 951  
ANSWERED IN THE RAJYA SABHA ON 08.12.2025**

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**Details of Thermal Power Projects commissioned from 01.04.2020 to 30.11.2025**

| <b>Sl.<br/>No</b>           | <b>Sector</b> | <b>State</b>   | <b>Project Name</b>                | <b>Implementing<br/>Agency</b> | <b>Unit<br/>No</b> | <b>Capacity<br/>(MW)</b> |
|-----------------------------|---------------|----------------|------------------------------------|--------------------------------|--------------------|--------------------------|
| <b>FY 2020-21</b>           |               |                |                                    |                                |                    |                          |
| 1                           | Central       | Tamil Nadu     | Neyveli New TPP                    | NLC                            | U-2                | 500                      |
| 2                           | Central       | Uttar Pradesh  | Tanda St-II                        | NTPC                           | U-6                | 660                      |
| 3                           | Central       | Uttar Pradesh  | Meja STPP                          | JV of NTPC & UPRVUNL           | U-2                | 660                      |
| 4                           | Central       | Chhattisgarh   | Lara STPP                          | NTPC                           | U-2                | 800                      |
| 5                           | Central       | Madhya Pradesh | Gadarwara STPP                     | NTPC                           | U-2                | 800                      |
| 6                           | Central       | Bihar          | Nabi Nagar STPP                    | NPGCL                          | U-2                | 660                      |
| 7                           | State         | Telangana      | Bhadradri TPP                      | TSGENCO                        | U-2                | 270                      |
| 8                           | State         | Telangana      | Bhadradri TPP                      | TSGENCO                        | U-3                | 270                      |
| <b>Sub Total FY 2020-21</b> |               |                |                                    |                                |                    | <b>4,620</b>             |
| <b>FY 2021-22</b>           |               |                |                                    |                                |                    |                          |
| 9                           | Central       | Bihar          | Nabi Nagar TPP                     | BRBCL(JV of NTPC/Railway)      | U-4                | 250                      |
| 10                          | Central       | Odisha         | Darlipalli STPP St-I               | NTPC                           | U-2                | 800                      |
| 11                          | Central       | Bihar          | Nabi Nagar STPP                    | NPGCL                          | U-3                | 660                      |
| 12                          | Central       | Bihar          | Barh STPP, Stage-I                 | NTPC                           | U-1                | 660                      |
| 13                          | State         | Uttar Pradesh  | HarduaganjExpn-II                  | UPRVUNL                        | U-1                | 660                      |
| 14                          | State         | Rajasthan      | Suratgarh SCTPP                    | RRVUNL                         | U-8                | 660                      |
| 15                          | State         | Telangana      | Bhadradri TPP                      | TSGENCO                        | U-4                | 270                      |
| 16                          | Private       | Tamil Nadu     | Tuticorin TPP, St-IV               | SEPC                           | U-1                | 525                      |
| <b>Sub Total FY 2021-22</b> |               |                |                                    |                                |                    | <b>4,485</b>             |
| <b>FY 2022-23</b>           |               |                |                                    |                                |                    |                          |
| 17                          | Central       | Jharkhand      | North Karanpura STPP               | NTPC                           | U-1                | 660                      |
| 18                          | State         | Andhra Pradesh | Sri DamodaramSanjeevaiah TPP St-II | APPDCL                         | U-1                | 800                      |
| <b>Sub Total FY 2022-23</b> |               |                |                                    |                                |                    | <b>1,460</b>             |
| <b>FY 2023-24</b>           |               |                |                                    |                                |                    |                          |
| 19                          | Central       | Telangana      | Telangana STPP St- I               | NTPC                           | U-2                | 800                      |
| 20                          | Central       | Jharkhand      | North Karanpura STPP               | NTPC                           | U-2                | 660                      |
| 21                          | Central       | Bihar          | Barh STPP St-I                     | NTPC                           | U-2                | 660                      |
| 22                          | Central       | Telangana      | Telangana STPP St- I               | NTPC                           | U-1                | 800                      |

|    |         |                |                                |                       |       |     |
|----|---------|----------------|--------------------------------|-----------------------|-------|-----|
| 23 | State   | Andhra Pradesh | Dr.Narla Tata Rao TPS St-V     | APGENCO               | U-8   | 800 |
| 24 | State   | Uttar Pradesh  | Obra-C STPS                    | UPRVUNL               | U-1   | 660 |
| 25 | State   | Uttar Pradesh  | Jawaharpur STPP                | UPRVUNL               | U-1   | 660 |
| 26 | Private | Uttarakhand    | Kashipur CCP, Ph-II (M/s SEPL) | SEPL                  | Mod-2 | 214 |
| 27 | Private | Maharashtra    | Shirpur Power Pvt. Ltd.        | M/s Jindal Power Ltd. | U-2   | 150 |

**Sub Total FY 2023-24**

**5,404**

**FY 2024-25**

|    |         |               |                                    |           |        |     |
|----|---------|---------------|------------------------------------|-----------|--------|-----|
| 28 | Central | Uttar Pradesh | Ghatampur TPP                      | NUPPL     | U-1    | 660 |
| 29 | Central | Uttar Pradesh | Khurja STPP                        | THDC      | U-1    | 660 |
| 30 | State   | Uttar Pradesh | Jawaharpur STPP                    | UPRVUNL   | U-2    | 660 |
| 31 | State   | Karnataka     | Yelahanka CCP                      | KPCL      | GT+S T | 370 |
| 32 | State   | Telangana     | Yadadari TPS                       | TGGENCO   | U-2    | 800 |
| 33 | State   | Maharashtra   | Bhusawal TPP                       | MAHAGENCO | U-6    | 660 |
| 34 | State   | Uttar Pradesh | Panki TPP                          | UPRVUNL   | U-1    | 660 |
| 35 | Private | Odisha        | MaaDurga Thermal Power Company Ltd | MTPCL     | U-2    | 30  |
| 36 | Private | Odisha        | MaaDurga Thermal Power Company Ltd | MTPCL     | U-1    | 30  |

**Sub Total FY 2024-25**

**4,530**

**FY 2025-26 (till 30.11.2025)**

|    |         |                |   |             |     |     |
|----|---------|----------------|---|-------------|-----|-----|
| 38 | Central | Jharkhand      | North Karanpura STPP                        | NTPC        | U-3 | 660 |
| 39 | Central | Bihar          | Barh STPP , St-I                            | NTPC        | U-3 | 660 |
| 40 | Central | Uttar Pradesh  | Khurja SCTPP                                | THDC        | U-2 | 660 |
| 41 | Central | Jharkhand      | Patratu STPP                                | PVUNL       | U-1 | 800 |
| 42 | Central | Bihar          | Buxar STPP                                  | SJVN        | U-1 | 660 |
| 43 | Central | Uttar Pradesh  | Ghatampur TPP                               | NUPPL       | U-2 | 660 |
| 44 | State   | Uttar Pradesh  | Obra-C STPS                                 | UPRVUNL     | U-2 | 660 |
| 45 | State   | Telangana      | Yadadari TPS                                | TGGENCO     | U-1 | 800 |
| 46 | Private | Chhattisgarh   | Vedanta Ltd Chhattisgarh TPP                | Vedanta Ltd | U-1 | 600 |
| 47 | Private | Odisha         | Ind Bharat TPP                              | JSWEUL      | U-2 | 350 |
| 48 | Private | Andhra Pradesh | Meenakshi Energy Ltd. (Thamminapatanam TPP) | Vedanta Ltd | U-3 | 350 |

**Sub Total FY 2025-26 (till 30.11.2025)**

**7,210**

**Grand Total**

**27,709**

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**ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 951  
ANSWERED IN THE RAJYA SABHA ON 08.12.2025**

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**Under Construction Thermal Projects as on 30.11.2025**

| Sl.No | Project Name / Implementing Agency                      | State          | Sector  | Unit No. | Capacity (MW) |  |
|-------|---|----------------|---------|----------|---------------|--|
| 1     | Buxar TPP (SJVN)  | Bihar          | CENTRAL | U-2      | 660           |  |
| 2     | Nabinagar STPP, St-II (NTPC)                            |                | CENTRAL | U-4      | 800           |  |
| 3     |   |                | CENTRAL | U-5      | 800           |  |
| 4     |   |                | CENTRAL | U-6      | 800           |  |
| 5     | Korba TPP, Ph-II (LancoAmarkantak TPP), M/s Adani Power | Chhattisgarh   | PRIVATE | U-3      | 660           |  |
| 6     |   |                | PRIVATE | U-4      | 660           |  |
| 7     | Singhitarai TPP, (M/s Vedanta)                          |                | PRIVATE | U-2      | 600           |  |
| 8     | Lara STPP St-II (NTPC)                                  |                | CENTRAL | U-3      | 800           |  |
| 9     |   |                | CENTRAL | U-4      | 800           |  |
| 10    | Raipur Ext TPP, Ph-II /Adani Power                      |                | PRIVATE | U-3      | 800           |  |
| 11    |   |                | PRIVATE | U-4      | 800           |  |
| 12    | Raigarh USCTPP, St-II/ Adani Power                      |                | PRIVATE | U-2      | 800           |  |
| 13    |   |                | PRIVATE | U-3      | 800           |  |
| 14    | Korba(W) SCTPP ( CSPGCL)                                |                | STATE   | U-1      | 660           |  |
| 15    |   |                | STATE   | U-2      | 660           |  |
| 16    | Sipat STPP, St-III (NTPC)                               |                | CENTRAL | U-1      | 800           |  |
| 17    | Akaltara TPP, JSW Energy                                |                | PRIVATE | U-4      | 600           |  |
| 18    |   |                | PRIVATE | U-5      | 600           |  |
| 19    |   |                | PRIVATE | U-6      | 600           |  |
| 20    | Binjkote TPP, M/s Sarda Energy Mineral                  |                | PRIVATE | U-3      | 300           |  |
| 21    |   |                | PRIVATE | U-4      | 300           |  |
| 22    | Ukai TPP/GSECL  | Gujarat        | STATE   | U-7      | 800           |  |
| 23    | DCR TPP Ext., /HPGCL                                    | Haryana        | STATE   | U-1      | 800           |  |
| 24    | Patratu STPP (PVUNL)                                    | Jharkhand      | CENTRAL | U-2      | 800           |  |
| 25    |   |                | CENTRAL | U-3      | 800           |  |
| 26    | Koderma TPS, St-II/ DVC                                 |                | CENTRAL | U-1      | 800           |  |
| 27    |   |                | CENTRAL | U-2      | 800           |  |
| 28    | Gadarwara STPP, Ph-II(NTPC)                             | Madhya Pradesh | CENTRAL | U-3      | 800           |  |
| 29    |   |                | CENTRAL | U-4      | 800           |  |
| 30    | Mahan STPP,St-II (Mahan Energen )                       |                | PRIVATE | U-3      | 800           |  |
| 31    |   |                | PRIVATE | U-4      | 800           |  |
| 32    | Mahan STPP,St-III (Mahan Energen)                       |                | PRIVATE | U-5      | 800           |  |
| 33    |   |                | PRIVATE | U-6      | 800           |  |
| 34    | KoradiTPS,St-V ( MSPGCL)                                | Maharashtra    | STATE   | U-11     | 660           |  |
| 35    |   |                | STATE   | U-12     | 660           |  |
| 36    | Malibrahmani TPP, M/s Jindal Power                      | Odisha         | PRIVATE | U-2      | 525           |  |

|              |                                    |               |         |     |               |  |
|--------------|------------------------------------|---------------|---------|-----|---------------|--|
| 37           | Talcher TPP St-III (NTPC)          |               | CENTRAL | U-1 | 660           |  |
| 38           |                                    |               | CENTRAL | U-2 | 660           |  |
| 39           | NLC TALABIRA TPP (NLC)             |               | CENTRAL | U-1 | 800           |  |
| 40           |                                    |               | CENTRAL | U-2 | 800           |  |
| 41           |                                    |               | CENTRAL | U-3 | 800           |  |
| 42           | North Chennai TPP, St-III (TNPGCL) | Tamil Nadu    | STATE   | U-6 | 800           |  |
| 43           | Udangudi STPP St-I (TNPGCL)        |               | STATE   | U-1 | 660           |  |
| 44           |                                    |               | STATE   | U-2 | 660           |  |
| 45           | Ennore SCTPP (TNPGCL)              |               | STATE   | U-1 | 660           |  |
| 46           |                                    |               | STATE   | U-2 | 660           |  |
| 47           | Yadadri TPS (TGGENCO)              | Telangana     | STATE   | U-4 | 800           |  |
| 48           |                                    |               | STATE   | U-3 | 800           |  |
| 49           |                                    |               | STATE   | U-5 | 800           |  |
| 50           | SingareniTPP,Ph-II/SCCL            |               | STATE   | U-3 | 800           |  |
| 51           | Ghatampur TPP (NUPPL)              | Uttar Pradesh | CENTRAL | U-3 | 660           |  |
| 52           | Singrauli STPP, St-III (NTPC)      |               | CENTRAL | U-8 | 800           |  |
| 53           |                                    |               | CENTRAL | U-9 | 800           |  |
| 54           | Raghunathpur TPS, Ph-II/DVC        | West Bengal   | CENTRAL | U-3 | 660           |  |
| 55           |                                    |               | CENTRAL | U-4 | 660           |  |
| 56           | Sagardighi TPP St-III (WBPDCL)     |               | STATE   | U-5 | 660           |  |
| <b>Total</b> |                                    |               |         |     | <b>40,345</b> |  |

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**ANNEXURE-IV****ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 951  
ANSWERED IN THE RAJYA SABHA ON 08.12.2025**

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**PROJECTS AWARDED BUT DUE FOR CONSTRUCTION AS ON 30.11.2025**

| <b>Sl.<br/>No</b> | <b>Name Of Project</b>               | <b>Sector</b> | <b>Developer</b> | <b>State</b>      | <b>Capacity<br/>in MW</b> | <b>Total<br/>capacity in<br/>MW</b> |
|-------------------|--------------------------------------|---------------|------------------|-------------------|---------------------------|-------------------------------------|
| 1                 | Darlipalli-II                        | Central       | NTPC             | Odisha            | 1x800                     | 800                                 |
| 2                 | Mirjapur TPS                         | Private       | ADANI<br>POWER   | Uttar Pradesh     | 2x800                     | 1,600                               |
| 3                 | Kawai                                | Private       | Adani            | Rajasthan         | 4x800                     | 3,200                               |
| 4                 | Telangana Stage II                   | Central       | NTPC             | Telangana         | 3x800                     | 2,400                               |
| 5                 | Salboni STPP                         | PRIVATE       | JSW              | West Bengal       | 2X800                     | 1,600                               |
| 6                 | Pirpanthi TPS                        | Private       | Adani Power      | Bihar             | 3x800                     | 2,400                               |
| 7                 | Anuppur TPS Ph II                    | Private       | M B Power        | Madhya<br>Pradesh | 1x800                     | 800                                 |
| 8                 | Adani Power Ltd.<br>Anuppur TPP      | Private       | Adani Power      | Madhya<br>Pradesh | 1x800                     | 1,600                               |
| 9                 | Torent Power                         | Private       | Torent Power     | Madhya<br>Pradesh | 2x800                     | 1,600                               |
| 10                | Meja-II                              | Central       | NTPC-UP-JV       | Uttar Pradesh     | 3x800                     | 2,400                               |
| 11                | Amarkantak TPS                       | STATE         | MPPGCL           | Madhya<br>Pradesh | 1x660                     | 660                                 |
| 12                | Satpura TPP (Sarni)<br>U#12          | STATE         | MPPGCL           | Madhya<br>Pradesh | 1x660                     | 660                                 |
| 13                | Assam State thermal<br>Power Station | State         | APGCL            | Assam             | 4x800                     | 3,200                               |
| <b>Total</b>      |                                      |               |                  |                   |                           | <b>22,920</b>                       |

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**ANNEXURE-V**

**ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 951  
ANSWERED IN THE RAJYA SABHA ON 08.12.2025**

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**THERMAL POWER PROJECTS UNDER BIDDING/PIPELINE AS ON 30.11.2025**

| <b>Sr.No.</b>      | <b>Name Of Project</b>           | <b>Sector</b> | <b>Developer</b> | <b>State</b> | <b>Capacity in MW</b> | <b>Total capacity in MW</b> |
|--------------------|----------------------------------|---------------|------------------|--------------|-----------------------|-----------------------------|
| 1                  | Durgapur TPS Ph-III              | Center        | DVC              | West Bengal  | 1x800                 | 800                         |
| 2                  | Lara TPP Ph-III                  | Central       | NTPC             | Chhattisgarh | 2x800                 | 1,600                       |
| 3                  | IB Valley Extn St-III, (U#5 & 6) | State         | OPGC             | Odisha       | 2x660                 | 1,320                       |
| 4                  | ChandrapuraExtn TPS              | Central       | DVC              | Jharkhand    | 2x800                 | 1,600                       |
| <b>GRAND TOTAL</b> |                                  |               |                  |              |                       | <b>5,320</b>                |

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

RAJYA SABHA  
UNSTARRED QUESTION NO.952  
ANSWERED ON 08.12.2025

INDIA ENERGY STACK

**952 # SHRI BRIJ LAL:**

Will the Minister of **POWER** be pleased to state:

- (a) the components, design structure and functional levels proposed under the India EnergyStack (IES) envisaged by Government;
- (b) whether Government has selected any pilot utility for implementation of the proof-of-concept (PoC) of the India Energy Stack (IES), if so, the names of the selected utilities and the criteria adopted for their selection;
- (c) the proposed timelines and major milestones for nationwide implementation of India Energy Stack; and
- (d) the amount of budget allocated and spent so far for the development, testing and implementation of the India Energy Stack?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a)to(d):** India Energy Stack (IES) is envisioned to create a universal digital blueprint for the power sector as a whole so that the disparate parts of the power system can connect and communicate securely through standard protocols. The Ministry has constituted a task force comprising domain experts and various stakeholders including representatives from Ministries, State utilities, Regulators etc for roadmap of IES including its component and design.

Distribution utilities of Delhi, Gujarat, Andhra Pradesh, Uttar Pradesh and Mumbai have been identified for pilot implementation and timeline for demonstration of the same is FY 2026-27. Fund allocated for the development of IES is Rs 51.3 Cr, of which Rs. 3.88 Cr has been released.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

RAJYA SABHA  
UNSTARRED QUESTION NO.953  
ANSWERED ON 08.12.2025

**REVAMPED DISTRIBUTION SECTOR SCHEME**

**953 # DR. KALPANA SAINI:**

Will the Minister of **POWER** be pleased to state:

- (a) the details of the total proposed outlay and Government budgetary assistance over a period of five years under the Revamped Distribution Sector Scheme (RDSS);
- (b) details of the total number of smart meters installed and approved in the country till June 2025;
- (c) the targeted number of smart meters to be installed by the end of 2025;
- (d) whether Government has taken any special measures to reduce gross technical and commercial losses in the distribution sector; and
- (e) if so, the details thereof?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a):** Under Revamped Distribution Sector Scheme (RDSS) infrastructure works including smart metering works worth Rs2,83,525 Cr with Gross Budgetary Support (GBS) of Rs. 1,21,637 Cr from Government of India have been sanctioned.

**(b) & (c):** Till date, 20.33 crores smart meters have been sanctioned under RDSS, out of which 3.42 crores smart meters have been installed. In total, 4.76 crore smart meters have been installed in the country under various schemes, as on date. The installation of sanctioned smart meters is to be completed by the end of the scheme period (March' 2028).

**(d) & (e):** Government of India (GoI) has been supporting the power distribution utilities to improve their Aggregate Technical and Commercial (AT&C) losses through various initiatives. Some of the key initiatives taken are as under:

- i. Revamped Distribution Sector Scheme (RDSS) launched with the objective of improving the quality and reliability of power through a financially sustainable and operationally efficient Distribution Sector. The scheme aims at bringing down the AT&C losses to pan-India level of 12-15% and ACS-ARR gap to zero. Under the Scheme, projects worth Rs. 2.83 lakh crore have been sanctioned. These involve distribution infrastructure works worth Rs. 1.53 lakh crore which include replacement of old/frayed conductors, laying Low Tension Aerial Bunched (LT AB) cables, and upgradation/augmentation of Distribution Transformers (DT)/Sub-stations, agriculture feeder segregation etc. The fund release under the scheme has been linked to performance of distribution utilities against various financial parameters, the prominent among them being AT&C losses and ACS-ARR Gap. Execution of these works would also help improve quality of supply of power. Prepaid smart metering is also one of the critical interventions envisaged under RDSS, which would help in improving AT&C losses.

- 2 -

- ii. Additional Borrowing consent of 0.5% of GSDP to State Governments, which is conditional on them undertaking specific reforms in the power sector.
- iii. Additional Prudential Norms for sanctioning of loans to State owned power utilities contingent on the performance of power distribution utilities against prescribed conditions.
- iv. Rules for implementation of FPPCA and cost reflective tariff so as to ensure that all prudent cost for supply of electricity are passed through.
- v. Rules and Standard Operating Procedure issued for proper subsidy accounting and their timely payment.

With collective effort of Centre & States/ UTs and the reform measures undertaken, the AT&C loss of distribution utilities at the national level has reduced from 21.91% in FY 21 to 16.16% in FY25.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

RAJYA SABHA  
UNSTARRED QUESTION NO.954  
ANSWERED ON 08.12.2025

**REVOCATION OF GRID ACCESS FOR RENEWABLE ENERGY PROJECTS**

**954 SHRI MOHAMMED NADIMUL HAQUE:**

Will the Minister of **POWER** be pleased to state:

- (a) the total renewable energy capacity for which CTUIL has revoked grid access since 2022, with State-wise details thereof;
- (b) the number of cancellations that were done due to developer delays and the number of cancellation due to transmission-side shortcomings;
- (c) the number and status of appeals pending before the Central Electricity Regulatory Commission (CERC); and
- (d) whether these repeated revocations indicate gaps in transmission planning needed to meet the 2030 non-fossil capacity target?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a)&(b):** Since 2022, Central Transmission Utility of India Limited (CTUIL) has revoked connectivity of 24 grantees with a Renewable Energy (RE) capacity of 6343MW. The cancellations are on account of developer delays and not due to transmission side delays. State-wise details of revocation are provided at **Annexure**.

**(c):** There are sixteen petitions pending before the Central Electricity Regulatory Commission that pertain to cases where the Petitioners (Power Generators) have approached CERC seeking protection from revocation of Connectivity.

**(d):** The revocation of grid access permissions is not due to shortfall in transmission planning for achieving the 2030 non-fossil capacity target. The Government of India has set a goal of 500 GW of non-fossil fuel-based generation capacity by 2030. Already 259 GW of non-fossil capacity is connected to the grid.

Further, Inter-State Transmission System for evacuation of 172 GW of renewable energy is already under construction, and bids are in process for 19 GW capacity. Simultaneously, the Government of India is working with the States to ensure timely development of respective Intra-State Transmission Systems for evacuation of 152 GW of renewable energy. These efforts, together with the planned transmission systems for integrating hydro, nuclear, and other non-fossil capacities, collectively provide a clear implementation plan for achieving the 500 GW non-fossil capacity target.

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**ANNEXURE**

**ANNEXURE REFERRED IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION  
NO. 954 ANSWERED IN THE RAJYA SABHA ON 08.12.2025**

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| <b>Sl No.</b> | <b>State</b> | <b>Location</b>  | <b>Applicants</b> | <b>Connectivity Quantum (MW)</b> | <b>Revoked Quantum (MW)</b> | <b>Reason for revocation</b>  |
|---------------|--------------|--|-------------------|----------------------------------|-----------------------------|---|
| 1.            | Karnataka    | Koppal PS,<br>Koppal-II PS,<br>Gadag PS                      | 6                 | 1500                             | 1500                        | Failure to comply milestones/<br>Annulment of Letter of<br>Award/Failure in submission<br>of land Documents               |
| 2.            | Tamil Nadu   | Tuticorin-II PS  | 1                 | 250                              | 32                          | Failure in achieving COD*   |
| 3.            | Maharashtra  | Solapur S/s,<br>Kallam PS,<br>Solapur PG                     | 8                 | 1090                             | 1090                        | Failure in achieving COD/<br>Failure in submission of<br>Financial Closure  |
| 4.            | Gujarat      | Jam Khambhaliya<br>PS, KPS1, KPS3,<br>Bhuj PS, Bhuj-II<br>PS | 6                 | 3243                             | 2871                        | Failure in submission of land<br>documents/ Failure in<br>submission of Financial<br>Closure/ Failure in achieving<br>COD |
| 5.            | Rajasthan    | Fatehgarh-II,<br>Fatehgarh-III<br>(Sec-I), Bikaner-II        | 3                 | 850                              | 850                         | Failure in achieving COD  |
|               | <b>TOTAL</b> |  | <b>24</b>         | <b>6933</b>                      | <b>6343</b>                 |   |

\*CoD- Commercial Operation Date

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

RAJYA SABHA  
UNSTARRED QUESTION NO.955  
ANSWERED ON 08.12.2025

**PROCUREMENT AND POLICY SUPPORT FOR PELLETS MADE FROM  
AGRICULTURAL STUBBLE**

**955 DR. VIKRAMJIT SINGH SAHNEY:**

Will the Minister of **POWER** be pleased to state:

- (a) whether Government has procured pellets made from agricultural stubble for thermal power plants;
- (b) the procurement details during the last three years, plant-wise;
- (c) whether any impact assessment has been conducted regarding environmental and economic benefits of using stubble-based pellets;
- (d) whether Government proposes subsidy or assistance for industries producing such pellets; and
- (e) if so, the timelines and modalities for implementing such support?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a) :** No, Government of India doesn't procure any pellets made from agricultural stubble for thermal power plants. Biomass pellets from agricultural residue are procured by the respective coal-based Thermal Power Plants (TPPs).

**(b) :** The plant-wise biomass pellets procured and co-fired in coal based Thermal Power Plants during the last three years i.e. FY 2022-23, FY 2023-24 and FY 2024-25, are given at **Annexure**.

**(c) :** No such impact assessment has been carried out regarding environmental and economic benefits of using stubble-based pellets. However, Agro-residue (Biomass) are now utilized for power generation through Ministry of Power's policy on biomass co-firing in coal-based thermal power plants. Co-firing of biomass pellets in TPPs reduces the amount of coal required by the power plant. This leads to a reduction of carbon dioxide emissions as biomass is a renewable source of energy. To some extent, it mitigates air pollution cause due to stubble burning. Also, the development of biomass supply chain shall generate source of revenue for the farmers through procurement of raw biomass by pellet manufacturers/aggregators.

As on 31.10.2025, approximately 34.21 Lakh Metric Tonnes (LMT) of biomass pellets have been co-fired across the country, leading to reduction of around 40 LMT of carbon dioxide (CO<sub>2</sub>) emissions.

**(d) & (e)** :The Government has taken various steps to promote establishment of biomass pellet manufacturing units across the country. Following financial Subsidy Schemes have been issued by Ministry of New & Renewable Energy (MNRE) and Central Pollution Control Board (CPCB):

(i) **MNRE Biomass Programme**- “*Scheme to Support Promotion of Manufacturing of Briquettes & Pellets and Biomass (Non-Bagasse) Based Cogeneration in Industries in the Country*” to support setting up of Biomass Briquette/Pellet manufacturing plants across the country for the period of FY 2021-22 to 2025-26. The scheme provides financial assistance as:

- a. **For Briquette manufacturing plant:**Rs. 09 Lakh per Metric Ton per Hour (MTPH) production capacity (subject to maximum Rs. 45 Lakh per project).
- b. **For Non-Torrefied Pellet manufacturing plant:**Rs. 21 Lakhs per MTPH production capacity or 30% of the capital cost, whichever is lower (subject to maximum Rs. 105 Lakhs per project).
- c. **For Torrefied Pellet manufacturing plant:**Rs. 42 Lakh per MTPH production capacity or 30% of the capital cost, whichever is lower (subject to maximum Rs. 210 Lakh per project)

(ii) **CPCB** - ” *Guidelines for providing one-time financial support for setting up of paddy straw based pelletisation and torrefaction plants* ” using only paddy straw generated in the NCT of Delhi, States of Punjab & Haryana, and NCR districts of Rajasthan & Uttar Pradesh, provides financial assistance as:

- a. **Pelletisation plant:** Rs. 28 Lakh per Ton per Hour (TPH) production capacity or 40% of the capital cost considered for plant and machinery of a 1 TPH plant, whichever is lower (subject to maximum Rs. 1.4 Crore per proposal)
- b. **Torrefaction plant:** Rs. 56 Lakh per TPH production capacity or 40% of the capital cost considered for plant and machinery of a 1 TPH plant, whichever is lower (subject to maximum Rs. 2.8 Crore per proposal).

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**ANNEXURE**

**ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 955  
ANSWERED IN THE RAJYA SABHA ON 08.12.2025**

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**Biomass Procured and co-fired in coal based Thermal Power Plants during the last three years**

| <b>Sr. No.</b> | <b>Organization/ Power Utility</b> | <b>Name of the Plant</b>   | <b>State</b>   | <b>FY 22-23 (Metric Tonne)</b> | <b>FY 23-24 (Metric Tonne)</b> | <b>FY 24-25 (Metric Tonne)</b> |
|----------------|------------------------------------|--|----------------|--------------------------------|--------------------------------|--------------------------------|
| 1              | HPGCL                              | Rajiv Gandhi Thermal Power Station, Khed, Hissar (RGTPS)               | Haryana        | 0                              | 418                            | 86,074                         |
| 2              | HPGCL                              | Deen BandhuChhotu Ram Thermal Power Project, Yamuna Nagar TPS (DCRTPP) | Haryana        | 0                              | 0                              | 35,558                         |
| 3              | HPGCL                              | Panipat Thermal Power Station, KhukhranaPanipat (PTPS)                 | Haryana        | 0                              | 0                              | 61,809                         |
| 4              | Apraava Energy                     | Mahatma Gandhi TPS, Jhajjar  | Haryana        | 1,956                          | 79,477                         | 2,15,165                       |
| 5              | NTPC JV- APCPL                     | Indira Gandhi Super Thermal Power Project (IGSTPP), Jhajjar            | Haryana        | 8,476                          | 96,536                         | 2,22,963                       |
| 6              | Vedanta                            | Talwandi Sabo Power Limited (TSPL), Mansa                              | Punjab         | 50                             | 25                             | 26,062                         |
| 7              | L&T                                | Nabha Power Limited (NPL), Rajpura                                     | Punjab         | 0                              | 396                            | 1,77,260                       |
| 8              | PSPCL                              | Guru Gobind Singh Super Thermal Plant Ropar (GGSSTP), Ropar            | Punjab         | 61                             | 3,222                          | 94,935                         |
| 9              | PSPCL                              | Guru Hargobind Thermal Plant (GHTP), LehraMohabbat                     | Punjab         | 39                             | 16,801                         | 60,686                         |
| 10             | UPRVUNL                            | Harduaganj TPS   | Uttar Pradesh  | 2,645                          | 26,147                         | 43,461                         |
| 11             | NTPC                               | National Capital Power Station, Dadri                                  | Uttar Pradesh  | 575                            | 35,750                         | 2,73,829                       |
| 12             | NTPC                               | Tanda Thermal Power Station, Ambedkar Nagar                            | Uttar Pradesh  | 1491                           | 167                            | 28,213                         |
| 13             | NTPC                               | Feroze Gandhi Unchahar Thermal Power Station, Raebareli                | Uttar Pradesh  | 154                            | 0                              | 0                              |
| 14             | UPRVUNL                            | Parichha Thermal Power Station, Jhansi                                 | Uttar Pradesh  | 0                              | 0                              | 210                            |
| 15             | Bajaj Energy Limited               | Lalitpur Power Generation Company Limited, Lalitpur                    | Uttar Pradesh  | 0                              | 0                              | 1,350                          |
| 16             | NTPC                               | Gadarwara Super Thermal Power Station, Narsinghpur                     | Madhya Pradesh | 1,836                          | 6,881                          | 32,731                         |
| 17             | NTPC                               | Khargone Super Thermal Power Station, Khargone                         | Madhya Pradesh | 4,259                          | 19,379                         | 54,615                         |
| 18             | NTPC                               | VindhyaChal Thermal Power Station, District Singrauli,                 | Madhya Pradesh | 0                              | 0                              | 852                            |
| 19             | Hindalco Industries Ltd.           | Mahan Al. Unit- CPP  | Madhya Pradesh | 14,771                         | 49,743                         | 25,694                         |
| 20             | Jaiprakash Power ventures          | JaypeeNigrie Super Thermal Power Plant,                                | Madhya Pradesh | 400                            | 588                            | 526                            |

|    |                                     |   |                |       |        |        |
|----|-------------------------------------|---|----------------|-------|--------|--------|
| 21 | Jaiprakash Power ventures           | JaypeeBina TPS  | Madhya Pradesh | 339   | 147    | 687    |
| 22 | Reliance Power                      | Sasan Power Ltd   | Madhya Pradesh | 44    | 0      | 0      |
| 23 | NTPC                                | Mauda Super Thermal Power Station,                            | Maharashtra    | 2,580 | 4197   | 71,129 |
| 24 | NTPC                                | Solapur Super Thermal Power Station                           | Maharashtra    | 0     | 0      | 7502   |
| 25 | RPSG Group                          | Dhariwal infrastructure limited                               | Maharashtra    | 0     | 24     | 101    |
| 26 | GMR Warora Energy Limited           | GMR Warora Energy Limited                                     | Maharashtra    | 20    | 0      | 3241   |
| 27 | JSW Energy Limited                  | JSW Energy - Ratnagiri  | Maharashtra    | 5     | 0      | 0      |
| 28 | SaiWardha                           | SaiWardha Power Generation Private Limited, Warora            | Maharashtra    | 0     | 10     | 0      |
| 29 | Tata Power                          | Trombay Thermal Power Station                                 | Maharashtra    | 0     | 0      | 499    |
| 30 | NTPC                                | LARA Super Thermal Power Station, Raigarh                     | Chhattisgarh   | 139   | 0      | 23     |
| 31 | Adani Power                         | Raipur Energen Limited.                                       | Chhattisgarh   | 77    | 0      | 0      |
| 32 | NTPC                                | Sipat Super Thermal Power Station, Bilaspur, Chhattisgarh     | Chhattisgarh   | 3,676 | 0      | 5,880  |
| 33 | DB Power Ltd                        | Badadarha TPP   | Chhattisgarh   | 25    | 60     | 0      |
| 34 | Adani Power                         | Raigarh Energy Generation Ltd.                                | Chhattisgarh   | 25    | 0      | 0      |
| 35 | Vedanta Ltd                         | Bharat Aluminium Company Limited                              | Chhattisgarh   | 4,755 | 14,500 | 2,973  |
| 36 | NTPC                                | KorbaKorba Super Thermal Power Station                        | Chhattisgarh   | 0     | 0      | 449    |
| 37 | NSPCL-SAIL                          | NSPCL Bhilai Power Plant                                      | Chhattisgarh   | 0     | 250    | 3513   |
| 38 | Jindal Power                        | JINDAL SUPER THERMAL POWER PLANT Tamnar                       | Chhattisgarh   | 0     | 264    | 0      |
| 39 | TRN ENERGY                          | TRN ENERGY PRIVATE LIMITED, NAWAPARA, Raigarh                 | Chhattisgarh   | 0     | 0      | 25     |
| 40 | Maruti Clean Coal and Power Limited | BANDAKHAR TPP, BandhaKhar, Tah- Pali, PO- Nunera, Distt-Korba | Chhattisgarh   | 0     | 0      | 24     |
| 41 | Lanco                               | Lanco-Amarkantak Power Limited                                | Chhattisgarh   | 0     | 50     | 0      |
| 42 | DVC                                 | Raghunathpur TPS  | West Bengal    | 0     | 21     | 9012   |
| 43 | DVC                                 | Mejia Thermal Power Station (MTPS)                            | West Bengal    | 0     | 56     | 13,405 |
| 44 | DVC                                 | Durgapur Steel Thermal Power Station (DSTPS)                  | West Bengal    | 49    | 452    | 10,616 |
| 45 | RPSG Group                          | Budge Budge Generating station                                | West Bengal    | 111   | 49     | 24     |
| 46 | RPSG Group                          | Haldia Energy Ltd   | West Bengal    | 0     | 80     | 0      |
| 47 | WBPDCL                              | Bakreswar Thermal Power Station                               | West Bengal    | 22    | 0      | 0      |
| 48 | WBPDCL                              | Sagardighi TPS  | West Bengal    | 25    | 0      | 0      |
| 49 | NTPC                                | Simhadri Super Thermal Power Station, Visakhapatnam           | Andhra Pradesh | 464   | 0      | 0      |

|    |                    |  |            |               |                 |                  |
|----|--------------------|--|------------|---------------|-----------------|------------------|
| 50 | Vedanta            | Jharsuguda Captive Power   | Orissa     | 44            | 329             | 0                |
| 51 | GMR Kamalganga     | GMR Kamalanga Energy Limited                                     | Orissa     | 20            | 0               | 0                |
| 52 | NLC India Limited  | Barsingsar Thermal Power Station, Bikaner                        | Rajasthan  | 0             | 0               | 424              |
| 53 | Shree Group        | Shree Mega Power Bewar   | Rajasthan  | 0             | 17,647          | 0                |
| 54 | DVC                | Bokaro Thermal Power Station - A (BTPS)                          | Jharkhand  | 0             | 0               | 7,761            |
| 55 | DVC                | Koderma Thermal Power Station (KTPS)                             | Jharkhand  | 0             | 0               | 18,268           |
| 56 | Tata Power         | Jojobera Power Plant   | Jharkhand  | 0             | 23              | 0                |
| 57 | NTPC               | Kahalgaon Super Thermal Power Station, Bhagalpur, Bihar          | Bihar      | 6             | 0               | 0                |
| 58 | GSECL              | Bhavnagar Lignite Thermal Power Station                          | Gujarat    | 0             | 0               | 3,612            |
| 59 | GSECL              | Gandinagar Thermal Power Plant, Gandhinagar                      | Gujarat    | 0             | 45              | 33,26            |
| 60 | GSECL              | Wanakbori Thermal Power Plant, Kheda                             | Gujarat    | 0             | 20              | 9,280            |
| 61 | GSECL              | Ukai Thermal Power Plant, Tapi                                   | Gujarat    | 0             | 10              | 3,893            |
| 62 | JSW Energy Limited | JSW Energy - TPP -Toranagallu                                    | Karnataka  | 336           | 0               | 0                |
| 63 | IL&FS TPCL         | IL&FS Tamilnadu Power Company Limited, Parangipettai, Cuddalore, | Tamil Nadu | 0             | 0               | 39               |
| 64 | NLC                | NLC Tamilnadu Power Limited, Tutticorin.                         | Tamil Nadu | 0             | 37              | 36               |
| 65 | OPG Power          | OPG Power Generation Pvt Ltd.                                    | Tamil Nadu | 618           | 1,055           | 717              |
|    |                    | <b>Total</b>   |            | <b>50,093</b> | <b>3,74,856</b> | <b>16,18,452</b> |

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

RAJYA SABHA  
UNSTARRED QUESTION NO.956  
ANSWERED ON 08.12.2025

**THERMAL POWER AND RENEWABLE GENERATION OBLIGATION (RGO)**

**956 SHRI KESRIDEVSINH JHALA:  
SHRI MITHLESH KUMAR:  
SMT. KIRAN CHOUDHRY:**

Will the Minister of **POWER** be pleased to state:

- (a) the manner in which Government is enforcing the 40 per cent Renewable Generation Obligation (RGO) for new coal/lignite-based plants;
- (b) the policies that prevent retiring coal assets from being replaced by high-pollution units, and the manner in which Distribution Companies (DISCOMs) are supported in procuring Renewable Energy;
- (c) whether Government is considering to extend Inter-State Transmission System (ISTS) charges waiver to all future thermal and hydro projects bundled with energy storage;
- (d) if so, the details thereof; and
- (e) whether the Resource Adequacy Planning Framework is being used to optimize DISCOMs' mix of firm power and variable Renewable Energy?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a) :** Pursuant to Clause 6.4(5) of the Tariff Policy 2016, the Ministry of Power initially mandated a Renewable Generation Obligation (RGO) vide a resolution dated 27<sup>th</sup> February, 2023. This required any generating company establishing a new coal/lignite-based thermal power station with a Commercial Operation Date (COD) on or after April 1, 2023, to either:

- Establish renewable energy capacity equivalent to a minimum of 40% of the thermal station's capacity (in MW), or;
- Procure and supply renewable energy equivalent to such capacity.

However, considering that generation capacity addition is now predominantly from renewable sources, the RGO was made voluntary in August 2025.

**(b):** As per Section 7 of the Electricity Act, 2003 Generation is a delicensed activity. Accordingly, the decision of retiring coal based thermal units is with the Power Generating Companies. However, considering the expected energy demand scenario and availability of capacity in future, CEA vide letters dated 20.01.2023 and 07.07.2023 has issued advisory to all the Thermal Power Utilities not to retire or repurpose their coal-based power stations before 2030.

Further, DISCOMs are encouraged to procure renewable energy through various policy initiatives like Renewable Consumption Obligations, Inter-state transmission charges waiver for storage based electricity, facilitation of rooftop solar installations, financial support for establishing energy storage systems and expansion of transmission network.

**(c) & (d):** No such proposal is under consideration.

**(e):** As per the Resource Adequacy Guidelines dated 28th June 2023, each Distribution Licensee is required to prepare Resource Adequacy Plan (RAP) with a 10-year planning horizon, to meet electrical peak demand and energy requirement. The RAP optimizes the mix of firm power and RE sources taking into consideration various factors including cost and availability of various sources of power and the extant policy or guidelines. The DISCOM holds the responsibility for implementing the plan and securing necessary capacity, and the compliance is ensured by the respective State Electricity Regulatory Commission (SERC).

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

RAJYA SABHA  
UNSTARRED QUESTION NO.957  
ANSWERED ON 08.12.2025

**SMART MONITORING OF POWER CONSUMPTION**

**957 SMT. SUMITRA BALMIK:**

Will the Minister of **POWER** be pleased to state:

- (a) the status of rollout of smart meters in the country, State-wise details;
- (b) the mechanism for procurement of smart meters and the percentage of smart meters which are indigenous or have indigenous content;
- (c) whether Government gives any preference to domestic manufacturers and startups in this field; and
- (d) details of any related initiatives towards smart monitoring of electricity consumption at the household, substation and grid level?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a):** Under Revamped Distribution Sector Scheme (RDSS), 20.33 crore smart meters have been sanctioned based on the proposal submitted by the States. In addition, many States have installed smart meters under the State schemes or externally aided projects. Till date 4.76 crore smart meters have been installed in the country under various schemes. State wise details are enclosed at **Annexure**.

**(b) & (c):** Under RDSS, smart metering is being carried out through Public Private Partnership (PPP) in TOTEX (i.e total expenditure which is sum of capital expenditure and operational expenditure) mode. The Advanced Metering Infrastructure Service Provider (AMISP) is responsible for supplying, maintaining and operating the metering infrastructure post installation.

To promote indigenization in Smart Meters, this Ministry, after deliberations with stakeholders, has taken various steps:

1. In July 2023 smart meters were included in the Annexure I of Public Procurement (Preference to Make in India), Order.
2. Presently, the minimum local content in smart meters is to be 60%.
3. In addition, since the Head End System (HES) and Meter Data Management (MDM) System are vital components of the Advanced Metering Infrastructure, 100% MLC in MDM and HES was mandated w.e.f. 01.01.2025.

**(d):** Several key initiatives have been undertaken for smart monitoring of electricity consumption at all levels. These include:

- i. Smart meters provide consumers with real-time data on their energy usage.
- ii. The data generated from smart meters at the system level including Feeders and Distribution Transformers and consumer level gives complete insights regarding energy accounting and is being used by the Distribution utilities for conducting energy audits.
- iii. The shift to prepaid smart meters allows for better budgeting for consumers and improved cash flow & billing efficiency for utilities.
- iv. Monitoring at the substation and grid level involves automation and integration of IT systems to improve reliability and efficiency. SCADA (Supervisory Control and Data Acquisition)/ DMS (Distribution Management System) systems have been sanctioned under RDSS which help in reducing outages and improving response times to faults through remote monitoring and control, thus improving the efficiency and reliability of power distribution networks.
- v. Funds have been allocated under the scheme for modernisation works including strengthening and upgrading distribution infrastructure, including substations, transmission lines, and underground cabling. The digitalization and modernization of the grid is essential for integration of renewable energy sources into the Distribution network, thereby facilitating the clean energy transition in the country.
- vi. Further, this Ministry is also actively supporting the Technology Solution Providers (TSPs), including startups to develop and scale up solutions that leverage the data from smart meters for various use under RDSS.

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**ANNEXURE****ANNEXURE REFERRED IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 957  
ANSWERED IN THE RAJYA SABHA ON 08.12.2025**

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| <b>Sl.<br/>No.</b> | <b>State</b>      | <b>Total Installed Meters as on<br/>15.11.2025</b> |
|--------------------|-------------------|--|
| 1                  | Andaman & Nicobar | 75,200   |
| 2                  | Andhra Pradesh    | 20,17,269  |
| 3                  | Arunachal Pradesh | 42,267   |
| 4                  | Assam             | 49,60,048  |
| 5                  | Bihar             | 82,37,246  |
| 6                  | Chandigarh        | 24,214   |
| 7                  | Chhattisgarh      | 30,53,925  |
| 8                  | Delhi             | 2,60,000   |
| 9                  | Goa               | -  |
| 10                 | Gujarat           | 31,28,262  |
| 11                 | Haryana           | 8,47,467   |
| 12                 | Himachal Pradesh  | 7,65,932   |
| 13                 | Jammu and Kashmir | 10,15,139  |
| 14                 | Jharkhand         | 9,71,708   |
| 15                 | Kerala            | 75,303   |
| 16                 | Ladakh            | 57,509   |
| 17                 | Madhya Pradesh    | 31,65,608  |
| 18                 | Maharashtra       | 73,98,415  |
| 19                 | Manipur           | 21,866   |
| 20                 | Meghalaya         | -  |
| 21                 | Mizoram           | 18,983   |
| 22                 | Nagaland          | 27,262   |
| 23                 | Odisha            | 4,500  |
| 24                 | Puducherry        | 227  |
| 25                 | Punjab            | 18,06,108  |
| 26                 | Rajasthan         | 18,28,078  |
| 27                 | Sikkim            | 79,635   |
| 28                 | Tamil Nadu        | 1,35,201   |
| 29                 | Telangana         | 8,882  |
| 30                 | Tripura           | 1,17,565   |
| 31                 | Uttar Pradesh     | 65,06,420  |
| 32                 | Uttarakhand       | 3,73,530   |
| 33                 | West Bengal       | 5,79,668   |
|                    | <b>Total</b>      | <b>4,76,03,437</b>                                 |

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

RAJYA SABHA  
UNSTARRED QUESTION NO.958  
ANSWERED ON 08.12.2025

**TRANSMISSION NETWORK IN RAJASTHAN**

**958 # SHRI RAJENDRA GEHLOT:**

Will the Minister of **POWER** be pleased to state:

- (a) whether Government is strengthening the transmission network in the State of Rajasthan;
- (b) the number of sub-centers sanctioned during the last three years; and
- (c) the expected improvements in the reliability of power supply?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a) & (b):** The strengthening of the transmission network in the State of Rajasthan is being undertaken through both Inter-State Transmission System (ISTS) and Intra-State Transmission System (InSTS) projects to cater to rising demand and the evacuation of renewable power. At present, transmission systems for evacuation of about 15.5 GW renewable capacity have already been commissioned in Rajasthan and ISTS projects for an additional 51.5 GW are under implementation.

During the last three years, 15 ISTS sub-stations have been sanctioned in Rajasthan to augment the transmission network.

Further, the Ministry of New and Renewable Energy (MNRE) is implementing the Green Energy Corridor (GEC) Phase-I and Phase-II schemes for creation of transmission infrastructure dedicated to renewable power. Under GEC-I, transmission projects comprising about 1,054 circuit kilometres (ckm) of lines and 1,915 Mega Volt Ampere (MVA) transformation capacity have been commissioned. Under GEC-II, projects covering 659 ckm of lines and 2,191 MVA transformation capacity are at various stages of implementation.

**(c):** Reliability of transmission infrastructure in Rajasthan is being enhanced through installation of system-strengthening elements such as Bus Reactors, Line Reactors, Static Compensators (STATCOMs) and Synchronous Condensers at appropriate voltage levels.

Additionally, the Government of India launched the Revamped Distribution Sector Scheme (RDSS) in July 2021 to improve the quality, reliability and affordability of power supply through reforms in the distribution sector. The scheme seeks to reduce Aggregate Technical & Commercial (AT&C) losses to 12-15% and eliminate the revenue gap per unit of energy supplied. Under RDSS, financial assistance has been sanctioned for infrastructure upgradation and smart metering activities.

In Rajasthan, projects amounting to ₹18,693 crore for loss-reduction works and ₹9,715 crore for smart metering works have been sanctioned. These works include upgradation of distribution transformers and substations, replacement of ageing or damaged conductor and cable, and feeder segregation for agricultural consumers, which will collectively contribute to improved reliability of electricity supply in the State.

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