### 10. ELECTRICITY

#### 10.1 INSTALLED CAPACITY AND GENERATION OF ELECTRICITY – 2020-21

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<th>Sl. No.</th>
<th>Name of power station</th>
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10.1 INSTALLED CAPACITY AND GENERATION OF ELECTRICITY – 2020-21  
(Contd.)

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<td></td>
<td></td>
</tr>
<tr>
<td>87</td>
<td>Trading Purchase (Bilateral)</td>
<td></td>
<td></td>
<td>5447.930</td>
<td></td>
<td></td>
</tr>
<tr>
<td>88</td>
<td>Trading Purchase (Exchange)</td>
<td></td>
<td></td>
<td>1670.540</td>
<td></td>
<td></td>
</tr>
<tr>
<td>89</td>
<td>Trading Purchase (Case 1 bidding)</td>
<td></td>
<td></td>
<td>3380</td>
<td>19449.893</td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>Swap receipt</td>
<td></td>
<td></td>
<td>1502.520</td>
<td></td>
<td></td>
</tr>
<tr>
<td>91</td>
<td>Swap return / Swap Banking/Sale</td>
<td></td>
<td></td>
<td>-1018.736</td>
<td></td>
<td></td>
</tr>
<tr>
<td>92</td>
<td>Total Wheeling quantum by HT</td>
<td></td>
<td></td>
<td>8129.530</td>
<td></td>
<td></td>
</tr>
<tr>
<td>93</td>
<td>Power sale to other states by TANGEDCO</td>
<td></td>
<td></td>
<td>-31.799</td>
<td></td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>Power sale to other states by Pvt Generations TNEB Generation towards Interstate Sale</td>
<td></td>
<td></td>
<td>-89.367</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95</td>
<td>CPP Power injected towards Interstate Sale</td>
<td></td>
<td></td>
<td>31.799</td>
<td></td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>Total Installed capacity (firm) in MW</td>
<td></td>
<td></td>
<td>18654.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Installed capacity in MW (in firm) **</td>
<td></td>
<td></td>
<td>14053.69</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power Demand Instantaneous</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Demand met in MW</td>
<td></td>
<td></td>
<td>16481</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sustained Demand met in MW</td>
<td></td>
<td></td>
<td>16481</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*a-The ppa of LANCO Tanjore Power Company Ltd expired on 31.07.2020
**-Not included in Installed Capacity*
### 10.2 LENGTH OF EHT/HT LINES, DISTRIBUTION AND EHT/HT SUB STATIONS 2020-21

<table>
<thead>
<tr>
<th>Item</th>
<th>Units</th>
<th>Energised as on 31.03.2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of E.H.T. &amp; Lines existing</td>
<td>Lakh Circuit Kms</td>
<td>0.36</td>
</tr>
<tr>
<td>Length of HT Lines existing</td>
<td>Lakh Kms</td>
<td>1.86</td>
</tr>
<tr>
<td>Length of L.T. Lines existing</td>
<td>Lakh Kms</td>
<td>6.43</td>
</tr>
<tr>
<td>Distribution Transformers existing</td>
<td>Nos.</td>
<td>3,48,030</td>
</tr>
<tr>
<td>E.H.T. &amp; H.T Sub-stations (existing)</td>
<td>Nos.</td>
<td>1828</td>
</tr>
</tbody>
</table>

Source: Chief Engineer (Planning), Tamil Nadu Generation and Distribution Corporation Ltd, Chennai-2

### 10.3 CONSUMPTION OF ELECTRICITY 2020-21

<table>
<thead>
<tr>
<th>Category</th>
<th>Consumption (M.U.)</th>
<th>Percentage of Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industries (including Traction)</td>
<td>32400</td>
<td>34.71</td>
</tr>
<tr>
<td>Agriculture</td>
<td>13956</td>
<td>14.95</td>
</tr>
<tr>
<td>Domestic</td>
<td>32714</td>
<td>35.05</td>
</tr>
<tr>
<td>Commercial</td>
<td>8956</td>
<td>9.59</td>
</tr>
<tr>
<td>Public Lighting &amp; Water Works</td>
<td>2587</td>
<td>2.77</td>
</tr>
<tr>
<td>Sales to Licensees</td>
<td>10</td>
<td>0.01</td>
</tr>
<tr>
<td>Sales to other states</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>2721</td>
<td>2.92</td>
</tr>
<tr>
<td>TOTAL</td>
<td>93344</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: The Chief Engineer (Planning), Tamil Nadu Generation and Distribution Corporation Ltd, Chennai
Generations of Electricity-2020-21

THERMAL, 68.6%
GAS+WIN+SOLAR
MILL, 7.6%
HYDRO, 23.8%
### 10.4 CONSUMERS AND CONNECTED LOAD

<table>
<thead>
<tr>
<th>TARIFF</th>
<th>CONSUMERS</th>
<th>As on 31-03-2021</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Consumers</strong></td>
<td><strong>Connected Load (MW)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>(in lakhs)</em></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>H.T. Supply</td>
<td>0.1</td>
<td>9,149</td>
</tr>
<tr>
<td>II</td>
<td>LT Supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Domestic</td>
<td>227.53</td>
<td>37,082</td>
</tr>
<tr>
<td>2.</td>
<td>Public Lighting &amp; Water Supply</td>
<td>7.61</td>
<td>2,513</td>
</tr>
<tr>
<td>3.</td>
<td>Industries</td>
<td>7.38</td>
<td>10,141</td>
</tr>
<tr>
<td>4.</td>
<td>Agriculture</td>
<td>21.81</td>
<td>11,017</td>
</tr>
<tr>
<td>5.</td>
<td>Huts</td>
<td>9.89</td>
<td>127</td>
</tr>
<tr>
<td>6.</td>
<td>Recognized Educational Institutions &amp; Private Educational Institutions</td>
<td>0.95</td>
<td>567</td>
</tr>
<tr>
<td>7.</td>
<td>Commercial</td>
<td>35.37</td>
<td>11,305</td>
</tr>
<tr>
<td>8.</td>
<td>Others</td>
<td>5.74</td>
<td>1,256</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>316.38</td>
<td>83,157</td>
</tr>
</tbody>
</table>

*Source: The Chief Engineer (Planning), Tamil Nadu Generation and Distribution Corporation Ltd, Chennai-2*
### 10.5 RURAL ELECTRIFICATION BY DISTRICTS 2020-21

<table>
<thead>
<tr>
<th>Name of the District</th>
<th>Habitations</th>
<th>AD colonies electrified</th>
<th>No. of Pumpsets energized during the year 2020-21</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Existing</td>
<td>Electrified</td>
<td>Un-Electrified</td>
</tr>
<tr>
<td>1. Kancheepuram</td>
<td>1354</td>
<td>1354</td>
<td>0</td>
</tr>
<tr>
<td>2. Thiruvallur</td>
<td>3862</td>
<td>3862</td>
<td>0</td>
</tr>
<tr>
<td>3. Chengalpet</td>
<td>2158</td>
<td>2158</td>
<td>0</td>
</tr>
<tr>
<td>4. Coimbatore</td>
<td>1200</td>
<td>1200</td>
<td>0</td>
</tr>
<tr>
<td>5. Erode</td>
<td>3199</td>
<td>3199</td>
<td>0</td>
</tr>
<tr>
<td>6. Tiruppur</td>
<td>2455</td>
<td>2455</td>
<td>0</td>
</tr>
<tr>
<td>7. Dharmapuri</td>
<td>2835</td>
<td>2835</td>
<td>0</td>
</tr>
<tr>
<td>8. Krishnagiri</td>
<td>3983</td>
<td>3983</td>
<td>0</td>
</tr>
<tr>
<td>9. Kanniyakumari</td>
<td>1155</td>
<td>1155</td>
<td>0</td>
</tr>
<tr>
<td>10. Chennai</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11. Madurai</td>
<td>1946</td>
<td>1945</td>
<td>1</td>
</tr>
<tr>
<td>12. Theni</td>
<td>607</td>
<td>607</td>
<td>0</td>
</tr>
<tr>
<td>13. Dindigul</td>
<td>3083</td>
<td>3083</td>
<td>0</td>
</tr>
<tr>
<td>14. The Nilgiris</td>
<td>1282</td>
<td>1282</td>
<td>0</td>
</tr>
<tr>
<td>15. Vellore</td>
<td>2122</td>
<td>2122</td>
<td>0</td>
</tr>
<tr>
<td>16. Tiruvannamalai</td>
<td>4267</td>
<td>4267</td>
<td>0</td>
</tr>
<tr>
<td>17. Ranipet</td>
<td>1593</td>
<td>1593</td>
<td>0</td>
</tr>
<tr>
<td>18. Thirupatthur</td>
<td>2394</td>
<td>2394</td>
<td>0</td>
</tr>
<tr>
<td>19. Pudukkottai</td>
<td>4062</td>
<td>4062</td>
<td>0</td>
</tr>
<tr>
<td>20. Ramanathapuram</td>
<td>2306</td>
<td>2306</td>
<td>0</td>
</tr>
<tr>
<td>21. Sivagangai</td>
<td>2723</td>
<td>2723</td>
<td>0</td>
</tr>
<tr>
<td>22. Virudhunagar</td>
<td>1760</td>
<td>1760</td>
<td>0</td>
</tr>
<tr>
<td>23. Salem</td>
<td>5109</td>
<td>5109</td>
<td>0</td>
</tr>
<tr>
<td>24. Namakkal</td>
<td>2520</td>
<td>2520</td>
<td>0</td>
</tr>
<tr>
<td>25. Cuddalore</td>
<td>2403</td>
<td>2403</td>
<td>0</td>
</tr>
<tr>
<td>26. Villupuram</td>
<td>2285</td>
<td>2285</td>
<td>0</td>
</tr>
<tr>
<td>27. Kallakuruchi</td>
<td>1202</td>
<td>1202</td>
<td>0</td>
</tr>
<tr>
<td>28. Thanjavur</td>
<td>2260</td>
<td>2260</td>
<td>0</td>
</tr>
<tr>
<td>29. Nagapattinam</td>
<td>2054</td>
<td>2054</td>
<td>0</td>
</tr>
<tr>
<td>30. Thiruvarur</td>
<td>1704</td>
<td>1704</td>
<td>0</td>
</tr>
<tr>
<td>31. Tiruchirappalli</td>
<td>2210</td>
<td>2210</td>
<td>0</td>
</tr>
<tr>
<td>32. Perambalur</td>
<td>314</td>
<td>314</td>
<td>0</td>
</tr>
<tr>
<td>33. Karur</td>
<td>2179</td>
<td>2179</td>
<td>0</td>
</tr>
<tr>
<td>34. Ariyalur</td>
<td>710</td>
<td>710</td>
<td>0</td>
</tr>
<tr>
<td>35. Thoothukkudi</td>
<td>1761</td>
<td>1761</td>
<td>0</td>
</tr>
<tr>
<td>36. Tirunelveli</td>
<td>1337</td>
<td>1337</td>
<td>0</td>
</tr>
<tr>
<td>37. Tenkasi</td>
<td>1000</td>
<td>1000</td>
<td>0</td>
</tr>
<tr>
<td>38. Mayiladuthurai</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>79394</td>
<td>79393</td>
<td>1</td>
</tr>
</tbody>
</table>
10.5 RURAL ELECTRIFICATION BY DISTRICTS 2019-20 (Contd.)

<table>
<thead>
<tr>
<th>Name of the District</th>
<th>Agricultural Pumpsets Energized as on 31.3.2021</th>
<th>Huts Electrified as on 31.3.2021</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>1. Kancheepuram</td>
<td>23380</td>
<td>19158</td>
</tr>
<tr>
<td>2. Thiruvallur</td>
<td>50394</td>
<td>35199</td>
</tr>
<tr>
<td>3. Chengalpet</td>
<td>46745</td>
<td>20690</td>
</tr>
<tr>
<td>4. Coimbatore</td>
<td>86600</td>
<td>23470</td>
</tr>
<tr>
<td>5. Erode</td>
<td>106435</td>
<td>23266</td>
</tr>
<tr>
<td>6. Tiruppur</td>
<td>110724</td>
<td>21406</td>
</tr>
<tr>
<td>7. Dharmapuri</td>
<td>77660</td>
<td>21658</td>
</tr>
<tr>
<td>8. Krishnagiri</td>
<td>62643</td>
<td>21379</td>
</tr>
<tr>
<td>9. Kanniyakumari</td>
<td>8109</td>
<td>3015</td>
</tr>
<tr>
<td>10. Chennai</td>
<td>83</td>
<td>560</td>
</tr>
<tr>
<td>11. Madurai</td>
<td>54062</td>
<td>20701</td>
</tr>
<tr>
<td>12. Theni</td>
<td>39832</td>
<td>4111</td>
</tr>
<tr>
<td>13. Dindigul</td>
<td>100590</td>
<td>24886</td>
</tr>
<tr>
<td>14. The Nilgiris</td>
<td>1635</td>
<td>11727</td>
</tr>
<tr>
<td>15. Vellore</td>
<td>45521</td>
<td>22959</td>
</tr>
<tr>
<td>16. Tiruvannamalai</td>
<td>186762</td>
<td>50945</td>
</tr>
<tr>
<td>17. Ranipet</td>
<td>55348</td>
<td>26863</td>
</tr>
<tr>
<td>18. Thirupaththur</td>
<td>44854</td>
<td>20952</td>
</tr>
<tr>
<td>19. Pudukkottai</td>
<td>63028</td>
<td>48357</td>
</tr>
<tr>
<td>20. Ramanathapuram</td>
<td>9621</td>
<td>2081</td>
</tr>
<tr>
<td>21. Sivagangai</td>
<td>27299</td>
<td>4104</td>
</tr>
<tr>
<td>22. Virudhunagar</td>
<td>39610</td>
<td>9120</td>
</tr>
<tr>
<td>23. Salem</td>
<td>135499</td>
<td>42420</td>
</tr>
<tr>
<td>24. Namakkal</td>
<td>99538</td>
<td>34303</td>
</tr>
<tr>
<td>25. Cuddalore</td>
<td>74286</td>
<td>102316</td>
</tr>
<tr>
<td>26. Villupuram</td>
<td>113037</td>
<td>67512</td>
</tr>
<tr>
<td>27. Kallakuruchi</td>
<td>84060</td>
<td>65207</td>
</tr>
<tr>
<td>28. Thanjavur</td>
<td>66212</td>
<td>37182</td>
</tr>
<tr>
<td>29. Nagapattinam</td>
<td>2482</td>
<td>19623</td>
</tr>
<tr>
<td>30. Thiruvvarur</td>
<td>23311</td>
<td>46105</td>
</tr>
<tr>
<td>31. Tiruchirappalli</td>
<td>89505</td>
<td>44517</td>
</tr>
<tr>
<td>32. Perambalur</td>
<td>42059</td>
<td>13286</td>
</tr>
<tr>
<td>33. Karur</td>
<td>50201</td>
<td>12977</td>
</tr>
<tr>
<td>34. Ariyalur</td>
<td>18944</td>
<td>18320</td>
</tr>
<tr>
<td>35. Thoothukudi</td>
<td>30925</td>
<td>5360</td>
</tr>
<tr>
<td>36. Tirunelveli</td>
<td>35266</td>
<td>3967</td>
</tr>
<tr>
<td>37. Tenkasi</td>
<td>49654</td>
<td>4295</td>
</tr>
<tr>
<td>38. Mayiladuthurai</td>
<td>25416</td>
<td>35141</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2181330</strong></td>
<td><strong>989138</strong></td>
</tr>
</tbody>
</table>

*Source: The Chief Engineer Planning, Tamil Nadu Generation and Distribution Corporation Ltd, Chennai-2*
## 10.6 Tamil Nadu Electricity Board - Capital Budget at a Glance

(Rs. in Crores)

<table>
<thead>
<tr>
<th>Details</th>
<th>Actual Expenditure during 2020-21 (Provisional)</th>
<th>Approved Outlay for 2020-21 (BE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Generation (Including investment in Joint Venture)</td>
<td>2911.66</td>
<td>8889.50</td>
</tr>
<tr>
<td>2. Renovation &amp; modernisation</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>3. Transmission &amp; Distribution</td>
<td>6642.22</td>
<td>7402.81</td>
</tr>
<tr>
<td>4. Rural Electrification</td>
<td>249.77</td>
<td>154.93</td>
</tr>
<tr>
<td>5. Survey &amp; Investigation</td>
<td>59.00</td>
<td>13.47</td>
</tr>
<tr>
<td>6. Interest during Construction</td>
<td>2411.16</td>
<td>2962.60</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>12273.81</strong></td>
<td><strong>19423.31</strong></td>
</tr>
</tbody>
</table>

*Source: The Chief Engineer (Planning), Tamil Nadu Generation and Distribution Corporation Ltd, Chennai-2*
### 10.7 APPROVED AND ONGOING THERMAL & HYDRO SCHEMES

<table>
<thead>
<tr>
<th>Name of the Projects</th>
<th>Original Sanctioned Cost / Price level</th>
<th>Latest Estimate cost / Price level</th>
<th>Expenditure Upto 31.03.2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETPS Expansion Thermal Power Project (1 x660 MW)</td>
<td>6380.81</td>
<td>6380.81</td>
<td>792.166</td>
</tr>
<tr>
<td>Ennore SEZ Thermal Power Project (2 x660 MW)</td>
<td>9800</td>
<td>9800</td>
<td>4493.86</td>
</tr>
<tr>
<td>North Chennai Thermal Power Project Stage III (1 x800 MW)</td>
<td>6376</td>
<td>8723</td>
<td>6391.93</td>
</tr>
<tr>
<td>Uppur Thermal Power Project (2 x800MW) (2014-15)</td>
<td>12778</td>
<td>12778</td>
<td>2298</td>
</tr>
<tr>
<td>Udangudi Thermal Power Project Stage I (2 x660 MW)</td>
<td>13077</td>
<td>13077</td>
<td>3392</td>
</tr>
<tr>
<td>Udangudi Thermal Power Project Stage II (2 x660 MW)</td>
<td>8745</td>
<td>8745</td>
<td>0.3343</td>
</tr>
<tr>
<td>Udangudi Thermal Power Project Stage III (2 x660 MW)</td>
<td>8745</td>
<td>8745</td>
<td>0.3343</td>
</tr>
<tr>
<td>Kundah Pumped Storage Hydro Electric Project (2013-14)</td>
<td>1831.29</td>
<td>1831.29</td>
<td>344.08</td>
</tr>
<tr>
<td>Sillahala Pumped Storage Hydro Electric Project (4 x250 MW)-Stage I (2019-20)</td>
<td>4952.17</td>
<td>4952.17</td>
<td>3.88</td>
</tr>
<tr>
<td>Kollimalai Hydro Electric Project (1 x20 MW) (2013-14)</td>
<td>338.79</td>
<td>338.79</td>
<td>73.90</td>
</tr>
<tr>
<td>Mechanization of CJ-1 at VOC Port (2020-21)</td>
<td>325</td>
<td>325</td>
<td></td>
</tr>
</tbody>
</table>

*Source: The Chief Engineer (Planning), Tamil Nadu Generation and Distribution Corporation Ltd, Chennai-2 Completion of the Project.*
### 10.8 TIME SERIES DATA – DEVELOPMENT OF ENERGY IN TAMIL NADU

<table>
<thead>
<tr>
<th>Year</th>
<th>Installed capacity (MW)</th>
<th>TANGEDCO Generation (MU)</th>
<th>Purchases (MU)</th>
<th>Per Capita Consumption (KWH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005-06</td>
<td>10031</td>
<td>26915</td>
<td>29812</td>
<td>860</td>
</tr>
<tr>
<td>2006-07</td>
<td>10098</td>
<td>29481</td>
<td>34208</td>
<td>960</td>
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<tr>
<td>2007-08</td>
<td>10122</td>
<td>29241</td>
<td>37608</td>
<td>1000</td>
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<tr>
<td>2008-09</td>
<td>10214</td>
<td>28983</td>
<td>38093</td>
<td>1000</td>
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<tr>
<td>2009-10</td>
<td>10214</td>
<td>27860</td>
<td>45027</td>
<td>1080</td>
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<tr>
<td>2010-11</td>
<td>10237</td>
<td>25639</td>
<td>50433</td>
<td>1040</td>
</tr>
<tr>
<td>2011-12</td>
<td>10364</td>
<td>27942</td>
<td>48592</td>
<td>1065</td>
</tr>
<tr>
<td>2012-13</td>
<td>10515</td>
<td>25301</td>
<td>49571</td>
<td>1011</td>
</tr>
<tr>
<td>2013-14</td>
<td>11884</td>
<td>31276</td>
<td>58517</td>
<td>1196</td>
</tr>
<tr>
<td>2014-15</td>
<td>13231</td>
<td>34569</td>
<td>59559</td>
<td>1228</td>
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<tr>
<td>2015-16</td>
<td>17976</td>
<td>34709</td>
<td>64982</td>
<td>1280</td>
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<tr>
<td>2016-17</td>
<td>18733</td>
<td>29223</td>
<td>76505</td>
<td>1340</td>
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<tr>
<td>2017-18</td>
<td>18747</td>
<td>27873</td>
<td>78954</td>
<td>1389</td>
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<tr>
<td>2018-19</td>
<td>18300</td>
<td>33328</td>
<td>80462</td>
<td>1467</td>
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<tr>
<td>2019-20*</td>
<td>16035</td>
<td>28244</td>
<td>85985</td>
<td>1515</td>
</tr>
<tr>
<td>2020-21*</td>
<td>16219</td>
<td>22667</td>
<td>84397</td>
<td>1464</td>
</tr>
</tbody>
</table>

*As per the CEA memorandum dated 08.03.2019, Hydro generation has been considered as renewable energy resource and has been deleted from conventional sources.

Source: The Chief Engineer (Planning), Tamil Nadu Generation and Distribution Corporation Ltd, Chennai-2

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