Minnesota

U.S. ENERGY AND EMPLOYMENT REPORT — 2023

Overview
Minnesota had 125,194 energy workers statewide in 2022, representing 1.5% of all U.S. energy jobs. Of these energy jobs, 16,166 were in electric power generation; 10,327 in fuels; 22,138 in transmission, distribution, and storage; 43,133 in energy efficiency; and 33,432 in motor vehicles. From 2021 to 2022, energy jobs in the state increased 3,792 jobs, or 3.1% (Figure MN-1). The energy sector in Minnesota represented 4.3% of total state employment.

Figure MN-1. Employment by Major Energy Technology Application

Breakdown by Technology Applications

Electric Power Generation
As shown in Figure MN-2, the electric power generation sector employed 16,166 workers in Minnesota, 1.8% of the national electricity total, and added 890 jobs from 2021 to 2022 (5.8%).
Construction was the largest industry sector in the electric power generation sector, with 52.6% of jobs. Utilities was second largest with 27.2% (Figure MN-3).

**Figure MN-3. Electric Power Generation Employment by Industry Sector**

**Fuels**

The Fuel sector employed 10,327 workers in Minnesota, 1.0% of the national total in fuels (Figure MN-4). The sector gained 882 jobs and increased 9.3% from 2021 to 2022.
Wholesale trade jobs represented 35.9% of fuel jobs in Minnesota (Figure MN-5).

**Figure MN-5. Fuels Employment by Industry Sector**

Transmission, Distribution and Storage

The transmission, distribution, and storage (TDS) sector employed 22,138 workers in Minnesota, 1.0% of the national TDS total (Figure MN-6). The sector gained 110 jobs and increased 0.5% from 2021 to 2022.
Utilities was the largest proportion of TDS jobs in Minnesota, accounting for 37.7% of the sector's jobs statewide (Figure MN-7).

**Figure MN-7. Transmission, Distribution and Storage Employment by Industry Sector**

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**Energy Efficiency**

The energy efficiency (EE) sector employed 43,133 workers in Minnesota, 1.9% of the national EE total. The EE sector added 914 jobs and increased 2.2% from 2021 to 2022 (Figure MN-8).
Energy efficiency employment was primarily found in the construction industry (Figure MN-9).

Motor Vehicles and Component Parts

The motor vehicles and component sector employed 33,432 workers in Minnesota, 1.3% of the national total for the sector. Motor vehicles and component parts added 996 jobs and increased 3.1% from 2021 to 2022. Repair and maintenance is the largest proportion of motor vehicle jobs (Figure MN-10).
Clean Energy Jobs

In 2022, there were 79,798 jobs in clean energy in Minnesota if traditional transmission and distribution is included and 62,619 jobs if it is not.\(^4\) These increased under either definition, growing 2.6% with traditional transmission and distribution and 3.3% without.

Employer Perspectives

Expected Growth

Employers in Minnesota were less optimistic than their peers across the country about energy sector job growth over the next year (Table MN-1).

Table MN-1 Expected Growth by Major Technology Application

<table>
<thead>
<tr>
<th>Technology</th>
<th>State Expected Growth Next 12 Months (percent)</th>
<th>U.S. Expected Growth Next 12 Months (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Power Generation</td>
<td>3.7</td>
<td>6.0</td>
</tr>
<tr>
<td>Electric Power Transmission, Distribution, and Storage</td>
<td>2.7</td>
<td>3.9</td>
</tr>
<tr>
<td>Energy Efficiency</td>
<td>3.9</td>
<td>6.4</td>
</tr>
<tr>
<td>Fuels</td>
<td>1.5</td>
<td>1.6</td>
</tr>
<tr>
<td>Motor Vehicles</td>
<td>3.5</td>
<td>5.5</td>
</tr>
</tbody>
</table>

\(^4\) The definition of “clean energy” at the state level differs from the national definition due to data availability. For more information see Appendix A of the national U.S. Energy and Employment Report.
**Hiring Difficulty**

Employers in Minnesota reported 48% overall hiring difficulty (Table MN-2).

**Table MN-2 Hiring Difficulty by Major Technology Application**

<table>
<thead>
<tr>
<th>Hiring Difficulty</th>
<th>Very Difficult (percent)</th>
<th>Somewhat Difficult (percent)</th>
<th>Not at All Difficult (percent)</th>
<th>Did not hire (percent)</th>
<th>Overall Hiring Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>24</td>
<td>24</td>
<td>8</td>
<td>43</td>
<td>48</td>
</tr>
</tbody>
</table>