Virginia
ENERGY AND EMPLOYMENT — 2022

Overview
Virginia had 179,940 energy workers statewide in 2021, representing 2.3% of all U.S. energy jobs. Of these energy jobs, 16,321 are in electric power generation; 11,654 in fuels; 29,016 in transmission, distribution, and storage; 73,119 in energy efficiency; and 49,830 in motor vehicles. From 2020 to 2021, energy jobs in the state increased by 8,330 jobs, or 4.9%. The energy sector in Virginia represents 4.7% of total state employment.

Figure VA-1.
Employment by Major Energy Technology Application
Breakdown by Technology Applications

*Electric Power Generation*

The electric power generation sector employed 16,321 workers in Virginia, 1.9% of the national electricity total, and added 584 jobs over the past year (3.7%).

**Figure VA-2.**
Electric Power Generation Employment by Detailed Technology Application

Construction work represents the largest industry sector in the electric power generation sector, with 33.8% of jobs. Professional and business services is second largest with 31.6%.

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

The fuel sector employed 11,654 workers in Virginia, 1.3% of the national total in fuels. The sector gained 173 jobs and increased 1.5% in the past year.

**Figure VA-4.**
Fuels Employment by Detailed Technology Application

Professional and business services jobs represent 35.5% of fuel jobs in Virginia.

**Figure VA-5.**
Fuels Employment by Industry Sector
Transmission, Distribution and Storage

The transmission, distribution, and storage (TDS) sector employed 29,016 workers in Virginia, 1.3% of the national TDS total. The sector gained 1,858 jobs and increased 6.8% in the past year.

Figure VA-6.
Transmission, Distribution and Storage Employment by Detailed Technology

Construction work represents the greatest proportion of TDS jobs in Virginia, accounting for 35.1% of the sector’s jobs statewide.

Figure VA-7.
Transmission, Distribution and Storage Employment by Industry Sector
Energy Efficiency

The energy efficiency (EE) sector employed 73,119 workers in Virginia, 3.4% of the national EE total. The EE sector added 1,614 jobs and increased 2.3% in the past year.

Figure VA-8.
Energy Efficiency Employment by Detailed Technology Application

EE employment is primarily found in the construction industry.

Figure VA-9.
Energy Efficiency Employment by Industry Sector
Motor Vehicles and Component Parts

The motor vehicles and component sector employed 49,830 workers in Virginia, 2% of the national total for the sector. Motor vehicles and component parts added 4,101 jobs and increased 9% in the past year. Repair and maintenance work represents the largest proportion of motor vehicle jobs.

Figure VA-10.
Motor Vehicle Employment by Industry Sector

![Motor Vehicle Employment by Industry Sector](chart)

Workforce Characteristics

Employer Growth

Employers in Virginia are less optimistic than their peers across the country about energy sector job growth over the next year.

Table VA-1
Projected Growth by Major Technology Application

<table>
<thead>
<tr>
<th>Technology</th>
<th>State Projected Growth Next 12 Months (percent)</th>
<th>U.S. Projected Growth Next 12 Months (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Power Generation</td>
<td>1.7</td>
<td>2.2</td>
</tr>
<tr>
<td>Electric Power Transmission, Distribution, and Storage</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>Energy Efficiency</td>
<td>1.4</td>
<td>1.7</td>
</tr>
<tr>
<td>Fuels</td>
<td>2.1</td>
<td>3.0</td>
</tr>
<tr>
<td>Motor Vehicles</td>
<td>2.2</td>
<td>3.2</td>
</tr>
</tbody>
</table>
**Hiring Difficulty**

Employers in Virginia reported 57.7% overall hiring difficulty.

**Table VA-2**
**Hiring Difficulty**

<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>26.1</td>
<td>31.6</td>
<td>7.5</td>
<td>34.7</td>
<td>57.7</td>
</tr>
</tbody>
</table>