Massachusetts
ENERGY AND EMPLOYMENT — 2022

Overview

Massachusetts had 163,437 energy workers statewide in 2021, representing 2.1% of all U.S. energy jobs. Of these energy jobs, 31,735 are in electric power generation; 7,392 in fuels; 19,834 in transmission, distribution, and storage; 79,173 in energy efficiency; and 25,304 in motor vehicles. From 2020 to 2021, energy jobs in the state increased by 4,446 jobs, or 2.8%. The energy sector in Massachusetts represents 4.7% of total state employment.

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

*Electric Power Generation*

The electric power generation sector employed 31,735 workers in Massachusetts, 3.7% of the national electricity total, and added 637 jobs over the past year (2%).

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

![Bar chart showing employment by detailed technology application.](chart)

Solar Electric Generation: 15,873
Wind Electric Generation: 2,448
Traditional Hydroelectric Generation: 1,581
Natural Gas Generation: 4,521
Coal Generation: 1,401
Oil & Other Fossil Fuel Generation: 403
Nuclear Generation: 936
Other Generation: 4,572

Professional and business services work represents the largest industry sector in the electric power generation sector, with 33.7% of jobs. Utilities is second largest with 17.9%.

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

![Bar chart showing employment by industry sector.](chart)
Fuels

The fuel sector employed 7,392 workers in Massachusetts, 0.8% of the national total in fuels. The sector gained 60 jobs and increased 0.8% in the past year.

Figure MA-4.
Fuels Employment by Detailed Technology Application

Wholesale trade jobs represent 60.5% of fuels jobs in Massachusetts.

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

The transmission, distribution, and storage (TDS) sector employed 19,834 workers in Massachusetts, 0.8% of the national TDS total. The sector lost 81 jobs and decreased 0.4% in the past year.

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

Utilities work represents the greatest proportion of TDS jobs in Massachusetts, accounting for 36.6% of the sector's jobs statewide.

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

The energy efficiency (EE) sector employed 79,173 workers in Massachusetts, 3.7% of the national EE total. The EE sector added 2,273 jobs and increased 3% in the past year.

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

EE employment is primarily found in the construction industry.

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

The motor vehicles and component sector employed 25,304 workers in Massachusetts, 1% of the national total for the sector. Motor vehicles and component parts added 1,557 jobs and increased 6.6% in the past year. Repair and maintenance work represents the largest proportion of motor vehicle jobs.

Figure MA-10.
Motor Vehicle Employment by Industry Sector

![Motor Vehicle Employment by Industry Sector]

Workforce Characteristics

Employer Growth

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

Table MA-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>1.3</td>
<td>2.2</td>
</tr>
<tr>
<td>Electric Power Transmission, Distribution, and Storage</td>
<td>0.7</td>
<td>1.1</td>
</tr>
<tr>
<td>Energy Efficiency</td>
<td>1.0</td>
<td>1.7</td>
</tr>
<tr>
<td>Fuels</td>
<td>1.7</td>
<td>3.0</td>
</tr>
<tr>
<td>Motor Vehicles</td>
<td>1.8</td>
<td>3.2</td>
</tr>
</tbody>
</table>
**Hiring Difficulty**

Employers in Massachusetts reported 55.2% overall hiring difficulty.

**Table MA-2**

<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>26.7</td>
<td>28.5</td>
<td>7.4</td>
<td>37.4</td>
<td>55.2</td>
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</tbody>
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