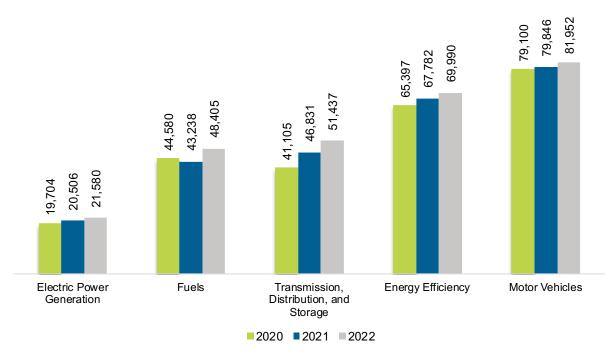
# Pennsylvania

# U.S. ENERGY AND EMPLOYMENT REPORT - 2023

#### **Overview**

Pennsylvania had 273,364 energy workers statewide in 2022, representing 3.4% of all U.S. energy jobs. Of these energy jobs, 21,580 were in electric power generation; 48,405 in fuels; 51,437 in transmission, distribution, and storage; 69,990 in energy efficiency; and 81,952 in motor vehicles. From 2021 to 2022, energy jobs in the state increased 15,162 jobs, or 5.9% (Figure PA-1). The energy sector in Pennsylvania represented 4.6% of total state employment.

#### Figure PA-1. Employment by Major Energy Technology Application



## **Breakdown by Technology Applications**

#### Electric Power Generation

As shown in Figure PA-2, the electric power generation sector employed 21,580 workers in Pennsylvania, 2.4% of the national electricity total, and added 1,074 jobs from 2021 to 2022 (5.2%).

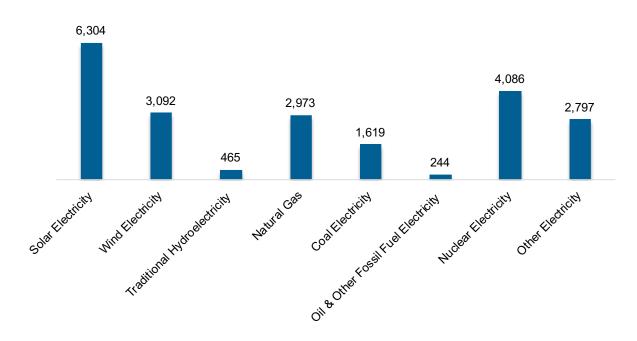
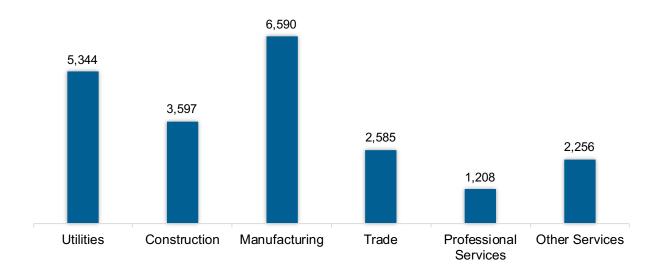


Figure PA-2. Electric Power Generation Employment by Detailed Technology Application

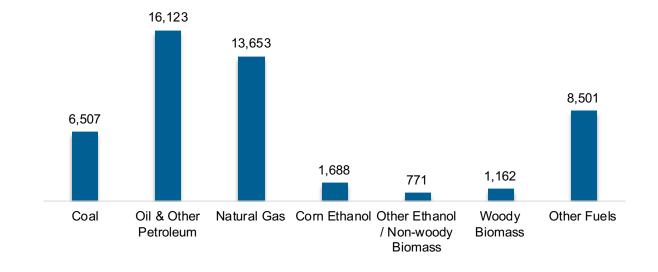
Manufacturing was the largest industry sector in the electric power generation sector, with 30.5% of jobs. Utilities was second largest with 24.8% (Figure PA-3).

Figure PA-3. Electric Power Generation Employment by Industry Sector



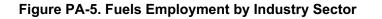
#### Fuels

The Fuel sector employed 48,405 workers in Pennsylvania, 4.7% of the national total in fuels (Figure PA-4). The sector gained 5,167 jobs and increased 12.0% from 2021 to 2022.





Mining and extraction jobs represented 36.6% of fuel jobs in Pennsylvania (Figure PA-5).



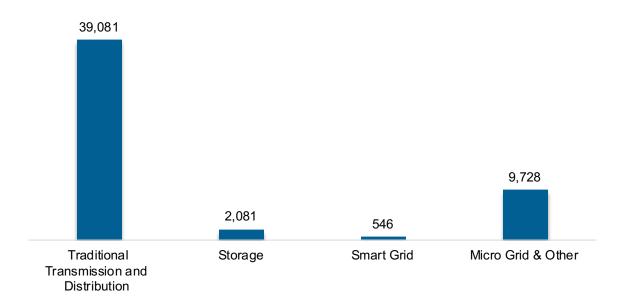


## Transmission, Distribution and Storage

The transmission, distribution, and storage (TDS) sector employed 51,437 workers in Pennsylvania, 4.7% of the national TDS total (Figure PA-6). The sector gained 4,606 jobs and increased 9.8% from 2021 to 2022.

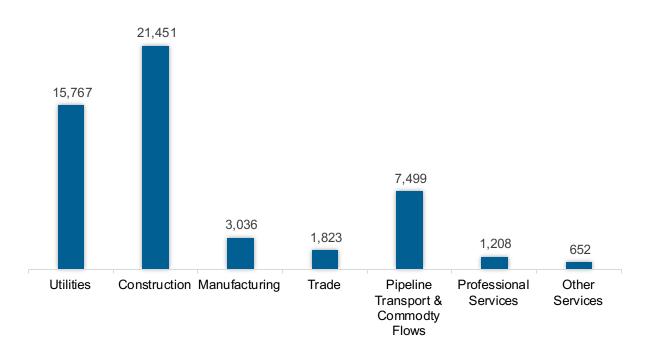
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Figure PA-6. Transmission, Distribution and Storage Employment by Detailed Technology



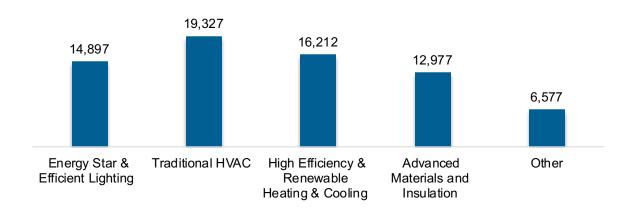
Construction was the largest proportion of TDS jobs in Pennsylvania, accounting for 41.7% of the sector's jobs statewide (Figure PA-7).

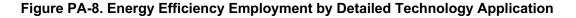




## Energy Efficiency

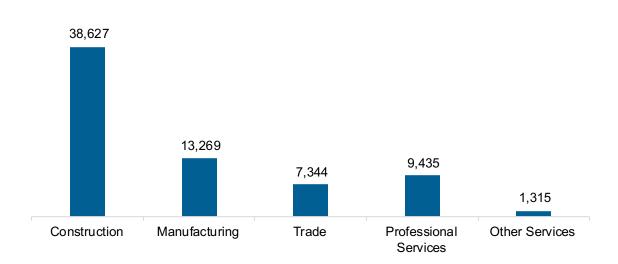
The energy efficiency (EE) sector employed 69,990 workers in Pennsylvania, 3.2% of the national EE total. The EE sector added 2,208 jobs and increased 3.3% from 2021 to 2022 (Figure PA-8).





Energy efficiency employment was primarily found in the construction industry (Figure PA-9).

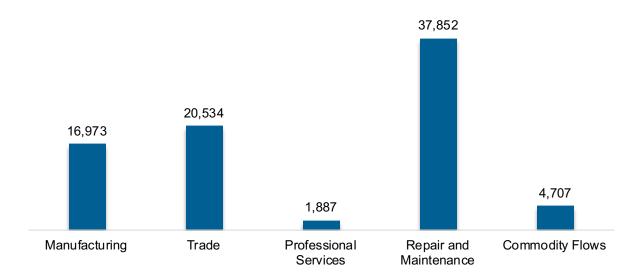


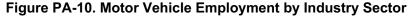


#### Motor Vehicles and Component Parts

The motor vehicles and component sector employed 81,952 workers in Pennsylvania, 3.1% of the national total for the sector. Motor vehicles and component parts added 2,106 jobs and increased 2.6% from 2021 to 2022. Repair and maintenance is the largest proportion of motor vehicle jobs (Figure PA-10).

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# **Clean Energy Jobs**

In 2022, there were 139,142 jobs in clean energy in Pennsylvania if traditional transmission and distribution is included and 99,956 jobs if it is not.<sup>39</sup> These increased under either definition, growing 6.4% with traditional transmission and distribution and 4.2% without.

# **Employer Perspectives**

## Expected Growth

Employers in Pennsylvania are similarly optimistic than their peers across the country about energy sector job growth over the next year (Table PA-1).

Technology	State Expected Growth Next 12 Months (percent)	U.S. Expected Growth Next 12 Months (percent)	
Electric Power Generation	5.7	6.0	
Electric Power Transmission, Distribution, and Storage	4.7	3.9	
Energy Efficiency	5.9	6.4	
Fuels	3.5	1.6	
Motor Vehicles	5.5	5.5	

Table PA-1	Expected	Growth b	v Maior	Technology	Application
	LAPCOLCU		y wajoi	recimology	Application

<sup>&</sup>lt;sup>39</sup> 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 Pennsylvania reported 50% overall hiring difficulty (Table PA-2).

Hiring Difficulty	Very Difficult (percent)	Somewhat Difficult (percent)	Not at All Difficult (percent)	Did not hire (percent)	Overall Hiring Difficulty
Overall	25	25	9	41	50

# Table PA-2 Hiring Difficulty by Major Technology Application