

# Energy Solutions to Meet Growth in Pennsylvania



**282,696 energy workers statewide**

Nearly 5% of state employment



**\$4.8B in capital expenditure invested**

in energy and manufacturing projects since Q2 2022



**Natural gas + renewables = 64%**

of Pennsylvania's power generation



**\$17M in rural revenue**

from clean power projects

The United States is already experiencing sharp increases in energy demand coupled with concerns about rising energy costs. A recent report by S&P Global Commodity Insights predicts that [U.S. electricity demand will surge by 35-50%](#) over the next few decades, driven by AI, data centers, and the onshoring of U.S. manufacturing.<sup>1</sup>

A broad portfolio of energy solutions are ready to meet this demand growth and provide economic benefits for communities across the country. In 2024, the United States deployed [\\$338 billion in financing](#) for energy technologies, including renewable energy, EVs, and power grid investment, up from \$303 billion in 2023, a 0.8% increase year on year. Nevertheless, China continued to lead the global market, with \$818 billion of investment in 2024, a 20% increase year on year.<sup>2</sup>

We need more energy now from a broad portfolio of all-of-the-above energy solutions. **This fact sheet highlights energy projects** driving economic growth in Pennsylvania – and policy solutions to meet growing energy demand.

## Energy Policy Solutions in Pennsylvania

The [Business Council for Sustainable Energy \(BCSE\)](#) and the [Clean Energy Business Network \(CEBN\)](#) are working with Congressional and state offices to enact policy solutions that will lower energy costs and ensure competitive Pennsylvania leadership, including:

- Expanding and **modernizing the electric grid and energy infrastructure**, to support integration of new and flexible energy resources.
- Reforming and expanding capacity for **permitting and siting processes** at all levels to enable the build-out of efficient energy infrastructure and buildings.
- Funding **research, development, demonstration, and deployment (RDD&D)** of energy and carbon management technologies, to support Pennsylvania's innovation in these expanding markets.
- Employing market-based tools, like **tax policy**, that create signals to invest and that leverage private sector dollars.

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# Pennsylvania's Expansive Energy Industry

**ENERGY PRICES:** From May 2024 to May 2025, [average residential energy prices](#) in Pennsylvania increased by 3.9%.<sup>3</sup> As of June 2025, average residential electrical rates in Pennsylvania are [19.7 cents per kWh](#), which are the 13th highest in the country.<sup>4</sup>

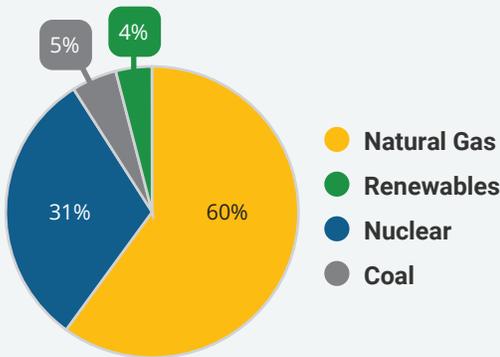
**UTILITY EFFICIENCY SPENDING:** In 2023, Pennsylvania utilities invested \$220 million in [electric efficiency](#).<sup>5</sup>

**ENERGY EFFICIENCY ADVANCEMENT:** The American Council for an Energy-Efficient Economy ranked Pennsylvania [number 22 in the nation](#) for policies and programs to advance energy efficiency in 2025.<sup>5</sup>

**INVESTMENT:** [\\$4.8 billion](#) in capital expenditure has been invested in 77 Pennsylvania energy and manufacturing projects since Q2 2022.<sup>6</sup>



**RURAL BENEFIT:** Clean power projects provide extra income to farmers, ranchers, and other private landowners. Annually, these drought-proof land lease payments total [\\$17 million](#).<sup>7</sup>

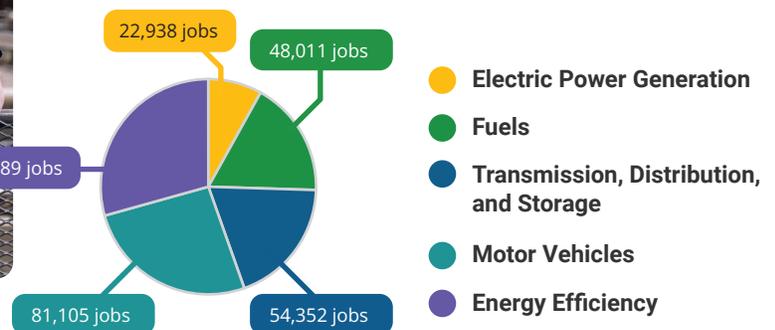


**GENERATION MIX:** Natural gas and renewables provided [64% of Pennsylvania's power generation](#) in 2024, up from 28% just a decade ago.<sup>2</sup>

- Pennsylvania is the nation's [second largest](#) natural gas producer after Texas.<sup>8</sup>
- Renewable energy, including hydropower, provides [4% of Pennsylvania's](#) electricity generation. Solar, wind, biomass, waste-to-energy, geothermal, and hydropower have cumulatively installed more than 3,855 MW of power generation to date.<sup>2</sup>



**JOBS:** Pennsylvania had [282,696 energy workers](#) statewide in 2024, representing 3.3% of all U.S. energy jobs. From 2023 to 2024, energy jobs in the state increased by 3,175 jobs, or 1.1%. The energy sector in Pennsylvania represents 4.7% of total state employment.<sup>9</sup>



# Energy at Work



**SCHNEIDER ELECTRIC:** [Manufacturing Facilities](#) in Mechanicsburg and Middletown

- Facilities manufacture materials such as low-voltage motor control centers, panelboard box and trim, lighting and PowerLink panelboards, NW breakers, and low-voltage switchgear and switchboards
- More than 600 total employees in Pennsylvania
- Facilities were upgraded and automated in 2024 as part of Schneider Electric's \$140 million investment in smart factory transformation



**TRANE TECHNOLOGIES:** [Energy-Efficient HVAC and Supply](#)

- Multi-billion-dollar company focused on heating, ventilation, and air conditioning (HVAC) and refrigeration systems
- Operates [Thermo King](#) and [Trane](#) brands
- 13 facilities in Pennsylvania, providing residential and commercial HVAC and refrigeration



**PDC MACHINES:** [Manufacturing Plants](#) in Warminster and Souderton

- Company manufactures cutting-edge hydrogen gas compression technology that enables consumers, industries, and companies to adopt zero-emission fuel cells
- PDC's first manufacturing plant, in Warminster, opened in 1985
- PDC's fuel cell fueling stations have been installed at sites including the Philadelphia Eagles' Lincoln Financial Field

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*The Business Council for Sustainable Energy (BCSE) is a coalition of companies and trade associations that deploy clean energy and decarbonization solutions, with a sector focus on energy efficiency, natural gas, and renewable energy. Members include investor-owned utilities, public power, independent power producers, project developers, technology providers, equipment manufacturers, environmental and energy market service companies, and more.*

*BCSE collaborates frequently with its small business division, the Clean Energy Business Network (CEBN), which encompasses a network of more than 8,000 cleantech business and community leaders across all 50 states. Collectively, BCSE and CEBN mobilize the full breadth of the clean energy economy, from innovators and small businesses to industry leaders and the trade associations that represent them.*

# Citations

- 1** 2025 US National Power Demand Study. Conducted by S&P Global Commodity Insights and commissioned by the American Clean Power Association.
- 2** 2025 Sustainable Energy in America Factbook. Conducted by BloombergNEF and commissioned by the Business Council for Sustainable Energy.
- 3** U.S. Energy Information Administration Electricity Data Browser.
- 4** Electricity Rates by State. Conducted by Choose Energy (2025).
- 5** 2025 State Energy Efficiency Scorecard. Conducted by the American Council for an Energy-Efficiency Economy.
- 6** Clean Investment Monitor. Conducted by MIT and Rhodium Group.
- 7** Clean Power State by State. Conducted by the American Clean Power Association.
- 8** U.S. Energy Information Administration. Pennsylvania State Profile and Energy Estimates.
- 9** United States Energy & Employment Report 2025. Conducted by the U.S. Department of Energy.