

Energy Solutions to Meet Growth in Pennsylvania



279,521 energy workers statewide

nearly 5% of state employment



\$4.9B in capital expenditure invested

in energy and manufacturing projects since Q2 2022



Natural gas + renewables = 64%

of Pennsylvania's power generation



\$16.8M 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.¹

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.²

We need more energy now from a broad portfolio of all-of-the-above energy solutions. According to a new report by Rhodium Group, a complete elimination of energy-related tax credits would result in a [57 – 72% reduction](#) in new clean power additions to the grid.³

Clear, predictable, and long-term federal tax policy is essential for market confidence that will get projects deployed quickly and urgently in states like Pennsylvania. This fact sheet **highlights energy projects** driving economic growth in Pennsylvania – and what is at risk in this expansive moment.

What's at Risk in Pennsylvania



LOST JOBS AND INVESTMENT: Since January 2025, the uncertainty of tariffs and withheld federal energy funding have [delayed \\$182.6 million in investments](#) and **threatened 901 job losses** across clean energy sectors in Pennsylvania.⁴

Additionally, repeal of bipartisan federal tax credits for energy manufacturing risks Pennsylvania losing \$1.34 billion in investment. Lower investment and increased energy bills would result in [26,400 fewer Pennsylvania jobs in 2030 and nearly 29,000 fewer jobs in 2035](#) than if current tax policies remained.⁵



INCREASED ENERGY PRICES: Pennsylvania's energy demand is projected to increase by [4.5 to 6.5 TWh](#) by 2026. In the absence of technology-neutral federal tax incentives, Pennsylvania's electricity prices are projected to increase 8% by 2026.⁶

Pennsylvania's Expansive Energy Industry

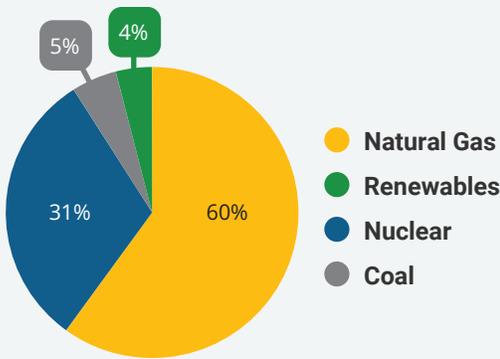
UTILITY EFFICIENCY SPENDING: In 2023, Pennsylvania utilities invested \$220 million in [electric efficiency](#).⁷

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 2025.⁷

INVESTMENT: \$4.9 billion in capital expenditure has been invested in 77 Pennsylvania energy and manufacturing projects since Q2 2022.⁸

RURAL BENEFIT: Clean power projects provide extra income to farmers, ranchers, and other private landowners. Annually, these drought-proof land lease payments total [\\$16.8 million](#).⁹

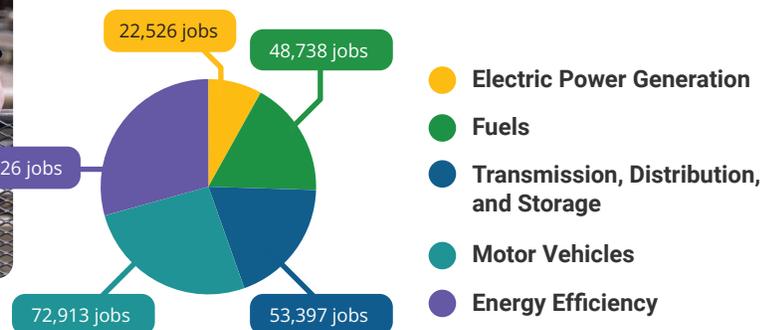


GENERATION MIX: Natural gas and renewables provided [64% of Pennsylvania's power generation](#) in 2024, up from 28% just a decade ago.

- Pennsylvania is the nation's [second largest](#) natural gas producer after Texas.¹⁰
- 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 [5,180 MW of power generation to date](#).¹¹



JOBS: Pennsylvania had [279,521 energy workers statewide](#) in 2023, representing 3.3% of all U.S. energy jobs. From 2022 to 2023, energy jobs in the state increased by 6,556 jobs, or 2.4%. The energy sector in Pennsylvania represents 4.7% of total state employment.¹²



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

 **The Business Council**
for Sustainable Energy®

 **CLEAN ENERGY**
BUSINESS NETWORK

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** US Manufacturing and Innovation. Conducted by Rhodium Group (June 2025).
- 4** 2025 Clean Energy Jobs Report. Conducted by Climate Power.
- 5** Repealing Federal Energy Tax Credits and Funding Will Harm Pennsylvania's Economy. Conducted by Energy Innovation (March 2025).
- 6** Electricity Price Impacts of Technology-Neutral Tax Incentives With Incremental Electricity Demand from Data Centers (February 2025). Conducted by NERA and commissioned by the Clean Energy Buyers Association.
- 7** 2025 State Energy Efficiency Scorecard. Conducted by the American Council for an Energy-Efficiency Economy.
- 8** Clean Investment Monitor. Conducted by MIT and Rhodium Group.
- 9** American Clean Power Association.
- 10** Pennsylvania State Energy Profile. Energy Information Administration (January 2025).
- 11** The State of Clean Energy 2024. Conducted by BloombergNEF and commissioned by the Clean Energy Business Network.
- 12** United States Energy & Employment Report 2024. Conducted by the U.S. Department of Energy.