



PENNSYLVANIA ENERGY OVERVIEW



Pennsylvania has a long history as a leader in energy production thanks to our rich and abundant natural resources. As market forces, technology, and government policies change, our position as a nationwide energy leader has remained strong.

In this Pennsylvania Energy Overview, we explore Pennsylvania's energy production, energy sector jobs, the Marcellus Shale Gas Production, and more. As a legislator, I stand steadfast in my commitment to keeping Pennsylvania energy issues at the forefront. There is a great deal of potential for jobs, innovation, and energy independence in the years ahead.

As always, I welcome your suggestions and feedback on this and other issues. Please email me at

Rmackenzie@pahousegop.com.

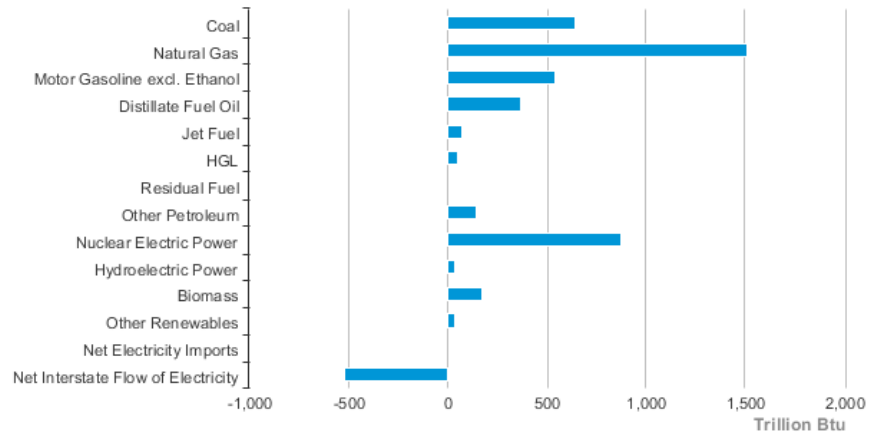
Sincerely,

Rep. Ryan Mackenzie
134th Legislative District

Quick Facts

- Pennsylvania is the nation's second-largest natural gas producer.
- In 2018 Pennsylvania was the third-largest coal-producing state.
- In 2019, Pennsylvania ranked second in the nation in electricity generation from nuclear power.
- Pennsylvania's Alternative Energy Portfolio Standards require 18% of electricity sold by 2021 to come from approved renewable or alternative sources.
- As of 2015, 51% of Pennsylvania households used natural gas as their primary home heating fuel, while 22% depended on electricity for heat, and 18% relied on fuel oil. Other heating fuels used in the state included propane, wood, and coal.
- 95% of wastewater from unconventional natural gas wells is recycled, the highest rate in the nation.

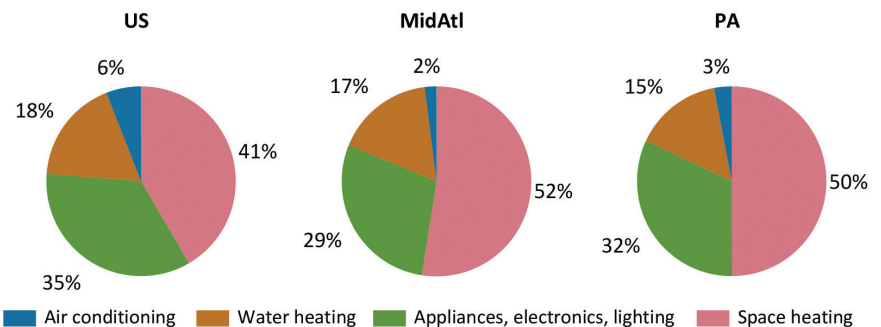
Pennsylvania Energy Consumption Estimates - 2018



Source: Energy Information Administration, State Energy Data System

Consumption by End Use

Half the energy consumed in Pennsylvania homes is for space heating. Air conditioning accounts for a larger share of household consumption than other Northeast states, but still only accounts for 3% of the total energy used in homes.



Household Energy Use in Pennsylvania

A closer look at residential energy consumption

All data from EIA's 2009 Residential Energy Consumption Survey
www.eia.gov/consumption/residential/

- Pennsylvania households consume an average of 96 million Btu per year, 8% more than the U.S. average. Pennsylvania residents also spend 16% more than the average U.S. households for energy consumed in their homes.
- Average electricity consumption in Pennsylvania homes is 10,402 kWh per year, which is lower than the national average, but 58% more than New York households and 17% more than New Jersey residents.
- Pennsylvania has a lower percentage of apartment units and homes are typically newer than homes in the other Middle Atlantic states.



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Pennsylvanians Employed in the Energy Sector

POWERING PA: Pennsylvania has long been an energy powerhouse and continues to provide good-paying jobs for Pennsylvanians. Here is how Pennsylvanians are employed in energy:



NUCLEAR POWER: Approximately 3,890 Pennsylvanians employed at four plants, Susquehanna, Beaver, Peach Bottom, and Limerick.



COAL: More than 5,000 Pennsylvanians are still employed in the coal industry as of 2019 even though there is a national decrease in coal generation jobs.



NATURAL GAS: In 2019, this industry employed more than 16,000 individuals.

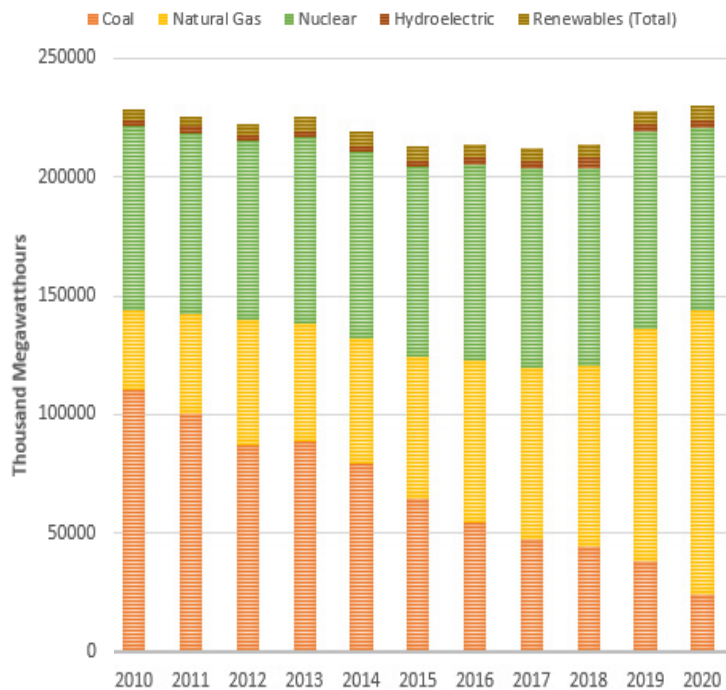


RENEWABLE ENERGY: This sector employed an additional 97,000 Pennsylvanians in 2019.

Source: *2020PAEnergyEmploymentReport.pdf*
(state.pa.us)

Pennsylvania Energy Production by Source

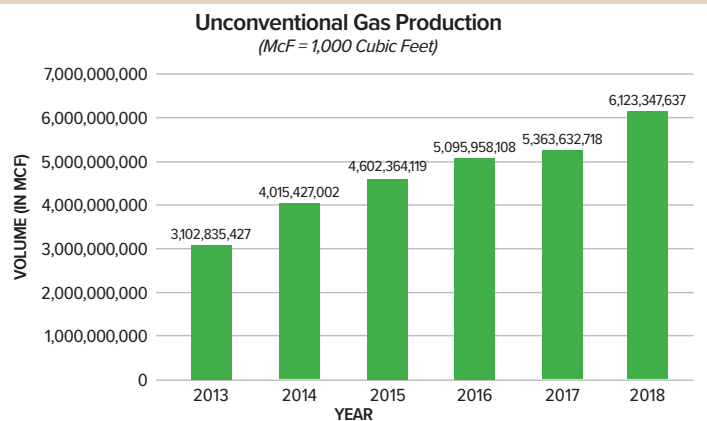
2001-2020 PA NET GENERATION BY SOURCE



Pennsylvania ranks only 27th in energy consumption but 3rd in energy production, trailing Texas and Wyoming.

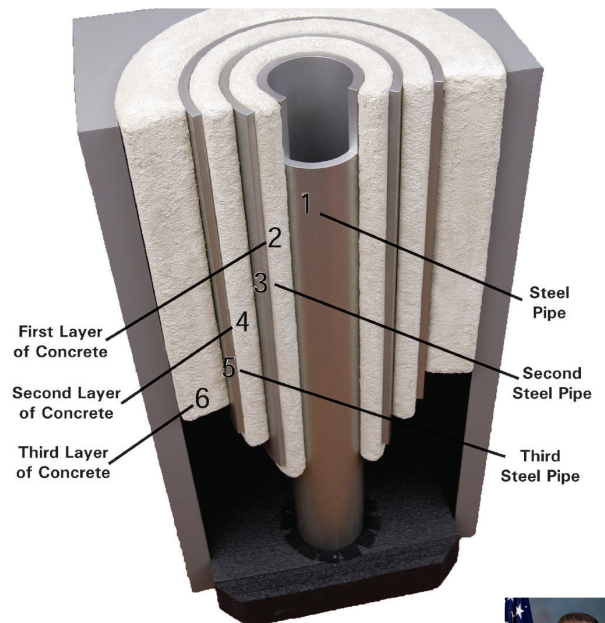
Marcellus Shale Gas Production

- Act 13 of 2012 (Impact Fee) was signed into law by Gov. Tom Corbett and provides for the imposition of an unconventional gas well fee (also called an impact fee), and the distribution of those funds to local and state governments.
- Overall production and the siting and drilling of new wells is projected to slow down in Pennsylvania over 2020.
- Increased supply has driven down prices from \$8 per million Btu a decade ago to \$2 per million Btu today.



Source: <https://gis.dep.pa.gov/2018OilGasAnnualReport/index.html>

Multiple Layers of Protection



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