EIA Overview















National Association of State Energy Officials (NASEO) July 25, 2017 | Washington, DC

by Shirley Neff, Senior Advisor



EIA mission: independent statistics and analysis

- EIA collects, analyzes, and disseminates independent and impartial energy information to promote sound policymaking, efficient markets, and public understanding of energy and its interaction with the economy and the environment
- By law, data, analyses, and forecasts provided by EIA are independent of approval by any other officer or employee of the U.S. Government



EIA's data collection system integrates all energy sectors



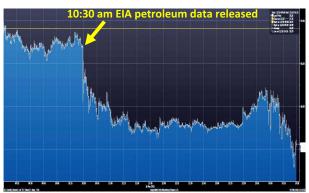
Complete list of EIA's active surveys and forms at www.eia.gov/survey/



The release of EIA's oil and natural gas inventory data has an immediate impact on energy markets

Producers, consumers, utilities, regulators, investors, and analysts use a wealth of EIA energy statistics in their day-to-day activities in the global energy marketplace.

- The Weekly Natural Gas Storage Report (WNGSR) is designated as a Principal Economic Indicator.
- The Weekly Petroleum Status Report (WPSR) provides statistics on oil and petroleum product stocks, imports, and production.



Data Represent NYMEX Light, Sweet Crude Oil (WTI) Near-Month Futures Contract December 16, 2015 Source: Bloomberg Finance LP (February 1, 2016)



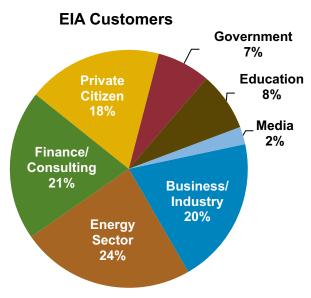
Data Represent NYMEX Henry Hub Natural Gas Near-Month Futures Contract October 15, 2015 Source: Bloomberg Finance LP (February 1, 2016)

Analyses, Projections, and Special Reports

- Today in Energy (daily), Natural Gas Weekly Update, This Week in Petroleum
 - -Discussion of recent data and market conditions
- Short-Term Energy Outlook (monthly)
 - Forecasts U.S. supplies, demands, imports, stocks, and prices of energy with a horizon of 12 to 24 months
- Annual Energy Outlook
 - Presents 25- to 30-year projection and analysis of U.S. energy supply, demand, and prices
 - Basis for special analyses of policy proposals requested by the Administration and Congress; recent studies have examined the Clean Power Plan and relaxation of restrictions on crude oil exports
- International Energy Outlook
 - Assesses international crude, liquid fuel, and natural gas markets



EIA information is used by a range of stakeholders



Source: 2015 Customer Satisfaction

Examples of Activities

Government

- Executive Agencies WH, DOE, & EPA use EIA data to track energy markets and program performance and to analyze policy proposals
- · Congress policy development and agency funding
- State Governments planning and program development

Energy Sector

- · Consumers monitor price forecasts
- · Producers track inventory statistics

Business/Industry

· Manufacturers - market research

Finance/Consulting

· Commodities Analysts - market response to supply data

Media/Education

- · Journalists cite energy statistics
- Teachers use Energy Kids materials
- Researchers energy forecasting and modeling

Private Citizens

· Public - research gasoline prices

Customer-focused Performance Results

- Quality: 90% of customers are satisfied or very satisfied with the quality of EIA information
- Timeliness: 95% of selected EIA recurring products meet their release date target

Guided Tour of EIA's State-Level Information

U.S. States landing page

Your state's home page

State Energy Profiles

- > Maps
- > Charts
- > Data
- > Analysis

Useful tools for exploring and understanding the data

- Ranking
- > Compare
- > Find
- ➤ Help



EIA Home Page (www.eia.gov)



What's New

Financial Review: First-quarter 2016 > July 22

Drilling Productivity Report > July 18

Short-Term Energy Outlook > July 12

More

Today in Energy

Posted July 25, 2016

Hourly information on U.S. electricity supply, demand, and flows is now available >

The U.S. Energy Information Administration now provides hourly electricity operating data, including actual and forecast demand, net generation, and the power flowing between electric systems. EIA's U.S. Electric System Operating Data tool provides nearly real-time demand data, plus analysis and visualizations of hourly, daily, and weekly electricity supply and demand on a national and regional level for all of the 66 electric system balancing authorities that make up the U.S. electric grid. More)

Data Highlights WTI crude oil futures price 7/22/2016: \$44.19/barrels ↓ \$1.76 from week earlier ↓ \$4.26 from year earlier

Natural gas futures price 7/22/2016: \$2.777/MMBtu

\$0.021 from week earlier

\$0.039 from year earlier

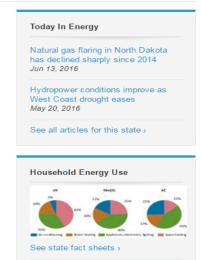


U.S. States Home Page (www.eia.gov/state/)



U.S. Overview





Pennsylvania Page (www.eia.gov/state/?sid=PA)



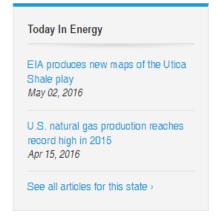


Pennsylvania Page (www.eia.gov/state/?sid=PA)

QUICK FACTS

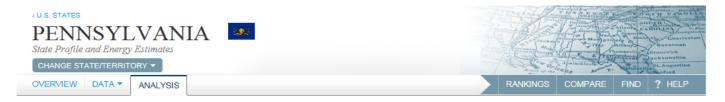
- Pennsylvania's annual gross natural gas production, primarily from the Marcellus Shale, exceeded 4 trillion cubic feet in 2014, doubling the state's 2012 production and making Pennsylvania the nation's second-largest natural gas producer.
- Pennsylvania was the fourth-largest coal-producing state in the nation in 2014 and the only state
 producing anthracite coal, which has a higher heat value than other kinds of coal.
- In 2015, Pennsylvania ranked second in the nation in electricity generation from nuclear power. The state obtained 37.2% of its net electricity generation from nuclear power, more than from any other source.
- Pennsylvania's Alternative Energy Portfolio Standards require 18% of electricity sold by 2021 to come from approved renewable or alternative sources, including at least 0.5% solar photovoltaic power. In 2015, renewable energy accounted for 4% of Pennsylvania's net electricity generation.
- As of 2014, 51% of Pennsylvania households used natural gas as their primary home heating fuel, while 21% depended on electricity for heat and 19% relied on fuel oil. Other heating fuels used in the state included propane, wood, and coal.

Last Updated: July 21, 2016





PA Profile Analysis (www.eia.gov/state/analysis.cfm?sid=PA)



Profile Analysis

Print State Energy Profile (overview, data, & analysis)

Last Updated: July 21, 2016

Overview

Pennsylvania is a leading East Coast supplier of coal, natural gas, nuclear power, and refined petroleum products to its own industries and to the nation. The Appalachian Mountains have rich coal resources and run southwest to northeast through Pennsylvania, dividing the Ohio River valley in the west from the Susquehanna River and Delaware River valleys in the east. Pennsylvania's largest metropolitan areas are Philadelphia on the Delaware River and Pittsburgh on the Ohio River. The Marcellus Shale, the largest U.S. natural gas field, underlies about three-fifths of the state in an arc reaching from the southwest to the northeast. A

Pennsylvania's temperate climate varies from the southeast, where it is influenced by the Atlantic Ocean, to cooler areas near the Great Lakes in the northwest, where weather fronts often come from Canada. Frecipitation in the state is plentiful and evenly distributed throughout the year. Temperatures vary significantly among the four seasons.

Pennsylvania supplies coal, natural gas, electricity, and refined petroleum products to the East Coast.

Pennsylvania's gross domestic product ranked sixth among the states in 2014. The state is among the top 10 consumers of coal, natural gas, petroleum products, and electricity, tits total energy consumption per capita is in the lower half of states nationwide. The industrial sector leads energy consumption in the state. Major energy-consuming industries include mining; steel, metals, and machinery manufacturing; chemical products; agriculture and food processing; and tourism. 11,12,13

Petroleum

Pennsylvania has long been the leading petroleum-refining state in the Northeast. Until 2011, the state's three largest refineries, clustered on the Delaware River around Philadelphia, represented half of the East Coast's refining capacity, supplying more than half the Northeast's ultra-low sulfur diesel (ULSD) and nearly half its heating oil and



Pennsylvania Page (www.eia.gov/state/?sid=PA)





SEDS (www.eia.gov/state/seds/seds-data-complete.cfm?sid=PA)

State Energy Data System (SEDS): 1960-2014 (complete)

Released: June 29, 2016 | Next release: June 30, 2017

Comprehensive state-level estimates of energy production, consumption, prices, and expenditures by source and sector,

Estimates for 2015 and revisions for previous years by energy source will be released on the SEDS updates page starting in October 2016.

		CHANGE STATE + EXPAND ALE
► Consumption	All states	Pennsylvania
➤ Prices and expenditures	All states	Pennsylvania
► Production	All states	Pennsylvania
► Data files	All states	Pennsylvania

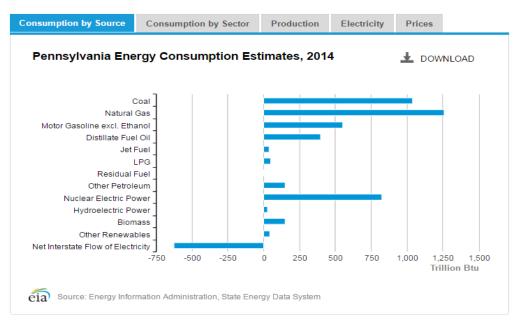
For additional information see:

- · About SEDS
- Notes and documentation
- Data and methodology changes
- · Codes and descriptions



CHANGE STATE + EXPAND ALL

Pennsylvania Page (www.eia.gov/state/?sid=PA)



MORE DATA & ANALYSIS IN PENNSYLVANIA

by Source

- Petroleum
- Nuclear
- Natural GasElectricity
- EnvironmentTotal Energy
- Coal
- Renewable & Alternative Fuels

· Household Energy Use

Summary Reports

- State Electricity Summary
- State Electricity Summary
- · State Renewable Electricity Statistics
- State Nuclear Summary
- · Natural Gas Summary Statistics







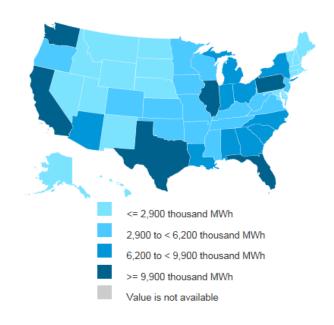


Ranking (www.eia.gov/state/rankings/?sid=PA#/series/51)



Rankings: Total Net Electricity Generation, April 2016 (thousand MWh)

		Download Table Data as CSV	
Rank 💠	State 💠	Total Net Electricity Generation (thousand MWh)	
1	Texas	32,641	
2	Florida	18,585	
3	Pennsylvania	14,658	
4	California	14,591	
5	Illinois	13,978	
6	Washington	10,107	
7	Alabama	9,775	
8	New York	9,571	



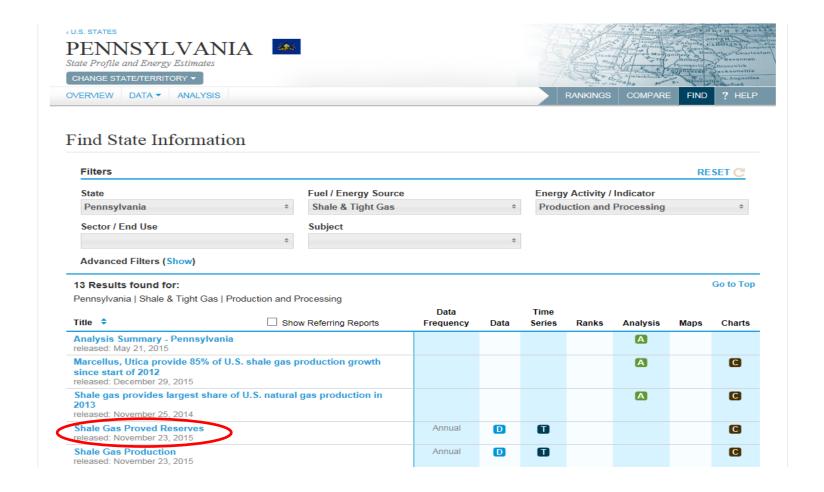


Compare (www.eia.gov/state/compare/?sid=PA#?selected=AL-AK-...)



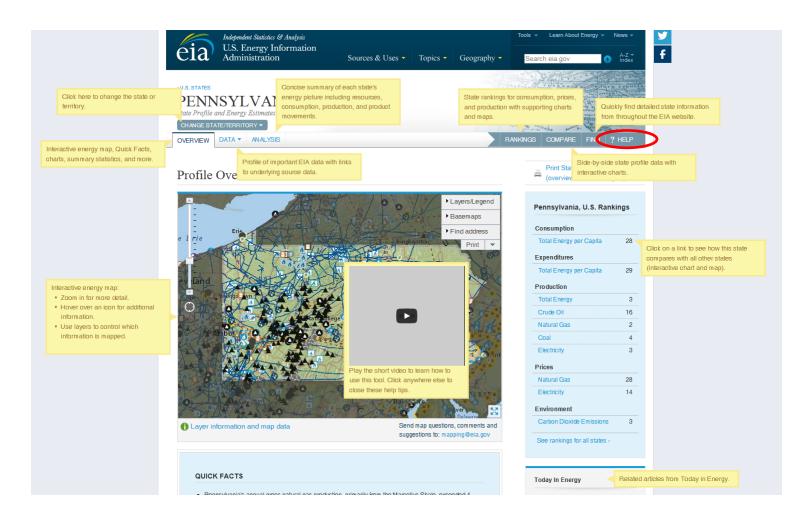


Find (www.eia.gov/state/search/?sid=PA#?1=97&2=219&5=121&r=false)

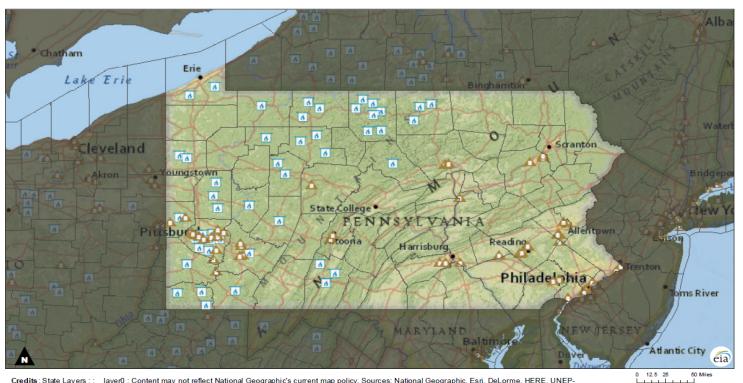




Help (e.g., at www.eia.gov/state/?sid=PA)



Petroleum Terminals and Underground Natural Gas Storage in Pennsylvania



Credits: State Layers: | layer0: Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

لسلسا

State Mask

County Boundary

Petroleum Product Terminal

Natural Gas Underground Storage (z)



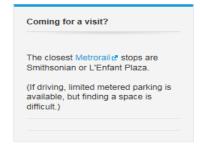
EIA Contacts (www.eia.gov/about/contact/state.cfm)

CONTACT US

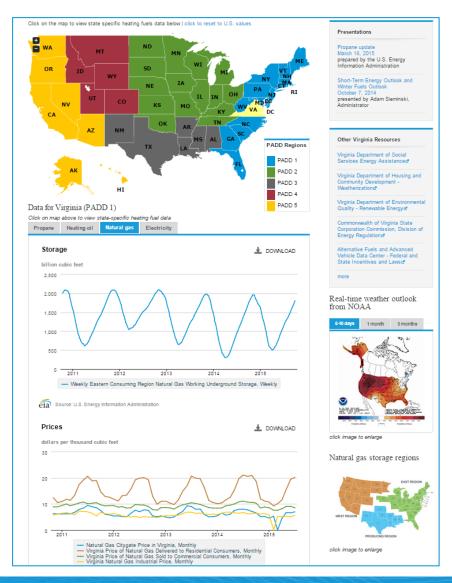


Electricity Detailed Data				
Jonathan DeVilbiss	202-586-2992	jonathan.devilbiss@eia.gov		
Energy Consumption by State				
Yvonne L. Taylor	202-586-1455	yvonne.taylor@eia.gov		
Energy Expenditures by State				
Yvonne L. Taylor	202-586-1455	yvonne.taylor@eia.gov		
Energy Production by State				
Yvonne L. Taylor	202-586-1455	yvonne.taylor@eia.gov		
Fuel Oil and Kerosene Sales				
Dan Walzer	202-586-3511	daniel.walzer@eia.gov		
Petroleum Prime Supplier Sales				
Maureen Klein	202-586-8013	maureen.klein@eia.gov		
State Electricity Profiles				
Marc Harnish	202-586-5309	marc.harnish@eia.gov		
State Heating Oil and Propane Program				
Marcela Rourk	202-586-4412	marcela.rourk@eia.gov		
State Energy Data Systems (SEDS)				
Yvonne L. Taylor Glendon Haynes	202-586-1455 202-586-3540	yvonne.taylor@eia.gov glendon.haynes@eia.gov		
State Energy Profiles				
Allen P. McFarland	202-287-5153	allen.mcfarland@eia.gov		
State Renewable Portfolio Standards				
Cara Marcy	202-586-9224	cara.marcy@eia.gov		





Winter Heating Fuels Webpage



www.eia.gov/special/heatingfuels

- Availability and pricing for the four principals heating fuels
 - 1. propane
 - 2. heating oil
 - 3. natural gas
 - 4. electricity
- Data relevant to each state available through clickable map
- Links to resources for each state
- Current week and 3-month weather forecasts from NOAA
- Every graph can be downloaded as an image or as a spreadsheet



For more information

U.S. Energy Information Administration home page | www.eia.gov

Winter Heating Fuels | www.eia.gov/special/heatingfuels

Short-Term Energy Outlook | www.eia.gov/steo

Annual Energy Outlook | www.eia.gov/aeo

Monthly Energy Review | www.eia.gov/mer

Today in Energy | www.eia.gov/todayinenergy

State Energy Portal | www.eia.gov/state

For more information

Write to: states@eia.gov

Visit: State Energy Portal | http://www.eia.gov/state/

Contact: Allen.McFarland@eia.gov State Energy Profiles Program Manager

Yvonne.Taylor@eia.gov State Energy Data System Program Manager

Barbara.Fichman@eia.gov Integrated Energy Statistics Team Leader

U.S. Energy Information Administration home page | www.eia.gov