

State Energy Portal



NASEO-NARUC Energy Security

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U.S. Energy Information Administration

Agenda

- EIA overview
- State Energy Portal
 - Understand historical trends
 - Use the data your way
 - Learn more
- Additional EIA resources
 - Energy Disruptions map
 - Hourly Electric Grid Monitor
- EIA contacts



The Nation's source of energy information

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.

EIA's products are independent

By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government.

The screenshot shows the EIA website interface. At the top, there is a navigation bar with the EIA logo, the text "Independent Statistics & Analysis U.S. Energy Information Administration", and links for "Sources & Uses", "Topics", and "Geography". A search bar is also present. Below the navigation is a large banner for the "New State Energy Portal" with a map of the United States. The main content area is divided into several sections: "What's New" with links to "Angola Country Analysis Brief" and "U.S. working natural gas stocks deficit to the five-year average fall to lowest level since March 2018"; "Today in Energy" featuring a headline about "Sempra Energy ships first liquefied natural gas cargo from Cameron LNG export facility" and a bar chart titled "Changes in U.S. liquefied natural gas export capacity (2015-2020)"; "Coming Up" with links to "Refinery Capacity Report" and "U.S. Battery Storage Market Trends"; and "Data Highlights" listing various energy prices and production levels with their weekly and year-over-year changes.

EIA publishes energy statistics across energy sectors

Resources & production

- Crude oil
- Natural gas
- Natural gas liquids
- Coal
- Uranium



Transformation, distribution, storage, and trade

- Petroleum & biofuel refiners, pipelines, and terminals
- Natural gas storage & distribution
- Electricity generation & distribution
 - Fossil
 - Nuclear
 - Renewables
- Biomass fuel



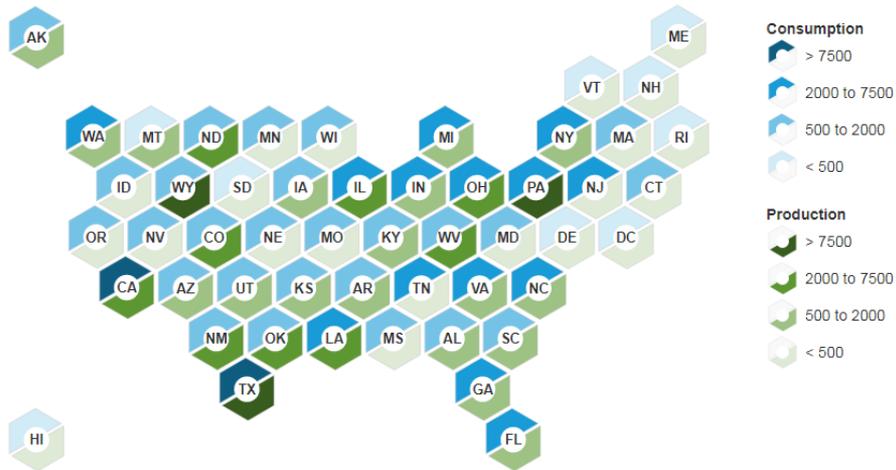
Energy end-use

- Residential
- Commercial
- Industrial
- Transportation
- Distributed generation



EIA's State Energy Portal provides the overall energy context for your state

Total energy production and consumption by state
trillion British thermal units



Note: This map reflects 2016 data. State Energy Portal data will be updated as more current series become available.

Source: U.S. Energy Information Administration, [State Energy Portal \(beta\)](#)

- New ways to visualize and download data
- Easier access to data of interest to states
- EIA *State Energy Profiles* enhancements

Tennessee

End-use energy consumption 2017, estimates

End-use consumption by source, excluding losses

1,443.6 trillion British thermal units
(percent of total for all sources)



Coal
39.3
(2.7%)



Natural gas
255.9
(17.7%)



Petroleum
741.4
(51.4%)



Renewable energy
75.2
(5.2%)



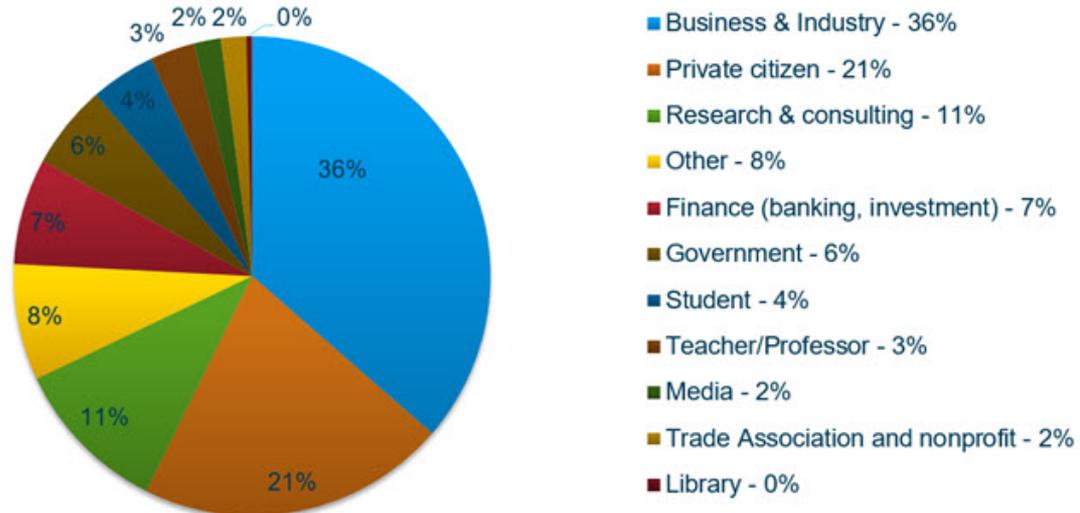
Electricity
331.8
(23.0%)

EIA's diverse customers use the State Energy Portal

- States, industry, educators, general public, and others providing feedback
- States also informed State Energy Portal via pre-beta focus groups and usability testing
- Please send your ideas & feedback to: states@eia.gov

Online training also available

EIA Customers



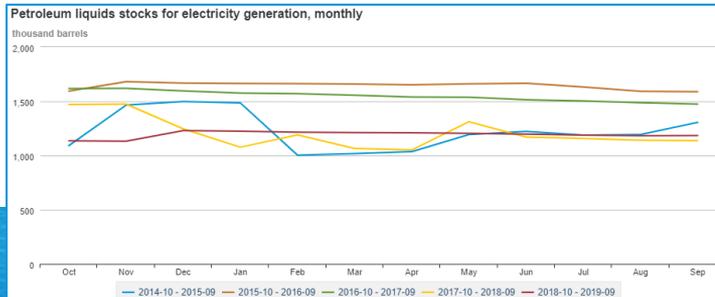
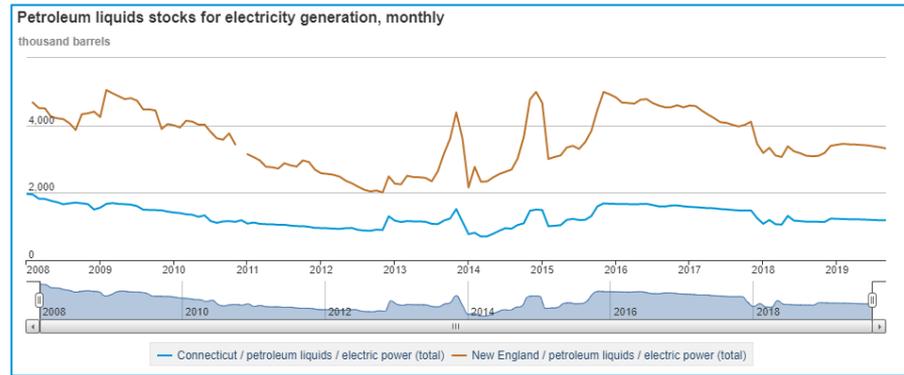
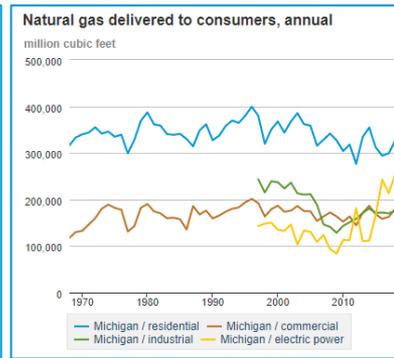
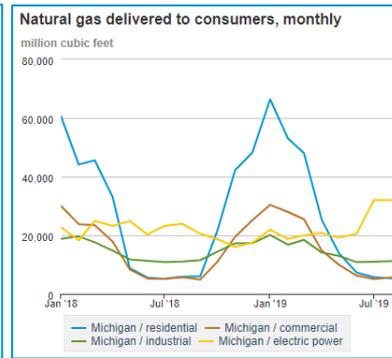
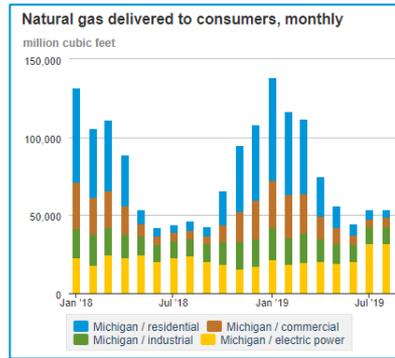
Note: Other category mainly includes transportation and trucking.

Source: U.S. Energy Information Administration, based on data from 2019 Web Customer Satisfaction Survey, August 2019



Understand historical data trends...

- Change chart types →
- Modify dates on x-axis →
- Add and compare series by →
 - Geography
 - Energy source
 - Sector
 - Frequency
 - Units
- Apply analysis tools →
- Create-your-own dashboards



States

- US
- Alabama
- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware

Regions

Census divisions ?

- East North Central
- East South Central
- Middle Atlantic
- Mountain

Chart Type

- Bar
- Line
- Table

Chart Indexing Options ?

- Index to start as percent
- Index to start as value
- None

Seasonal Analysis Options ?

- 5 year analysis
- 10 year analysis
- None

...for more than 1,700 state- and regional-level data series

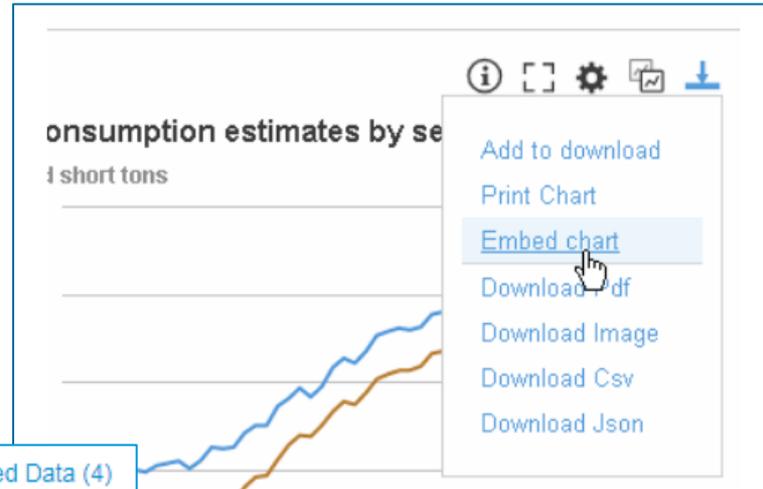
- Data from sources beyond EIA
 - Regional wholesale electricity prices
 - Other federal (e.g. NRC, Census)
- Expanded content
 - 525 regional series and trading hubs
 - New map layers (e.g. railways, uranium reserves)
 - New Open Data (e.g. EIA monthly biodiesel in API)
- Multiple ways to find data
 - 20 dashboards pre-curated by energy source, activity, and topic
 - Chart search by key words
 - Scroll by source or activity

The screenshot displays the State Energy Portal interface. At the top, there are navigation tabs: OVERVIEW, DATA, ANALYSIS, and RANKINGS. On the right, there are links for HOW TO and PRINT. The main content is divided into two columns: Energy Source and Activity. The Energy Source column lists: Coal, Crude oil and petroleum products, Electricity, Natural gas, Nuclear and uranium, Renewables, and Total energy. The Activity column lists: Price, Demand, Movements, Storage, Supply, and Future supply. On the right side, there is a 'Create Custom Dashboard' button and a 'Topic' section with links for State energy planning, Energy indicators, Reliability and resiliency, Energy infrastructure, Supply and disposition, Energy efficiency and cogeneration, and Environment. Below the topics is the 'State Energy Data System (SEDS)' section with links for 1960-2016 estimates and 2017 updates. At the bottom right, there is a 'ADD A VISUALIZATION' panel with a search bar containing the word 'retail' and a search button. Below the search bar, there are two sections: 'CRUDE OIL AND PETROLEUM PRODUCTS' with a link for 'Retail gasoline prices', and 'ELECTRICITY' with links for 'Average retail electricity prices by end-use sector', 'Number of retail electricity customers by sector', 'Retail sales of electricity by end-use sector', and 'Revenue from retail sales of electricity by sector'. There is also a 'PRICE' section with links for 'Average retail electricity prices by end-use sector' and 'Number of retail electricity customers by sector'. Three blue arrows point from the text in the left column to the 'Retail gasoline prices', 'Average retail electricity prices by end-use sector', and 'Number of retail electricity customers by sector' links in the visualization search results.

Use the data your way

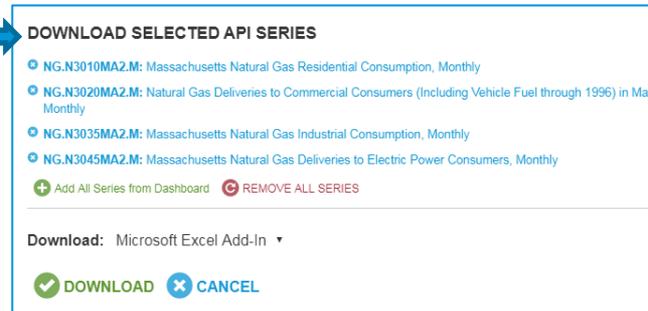
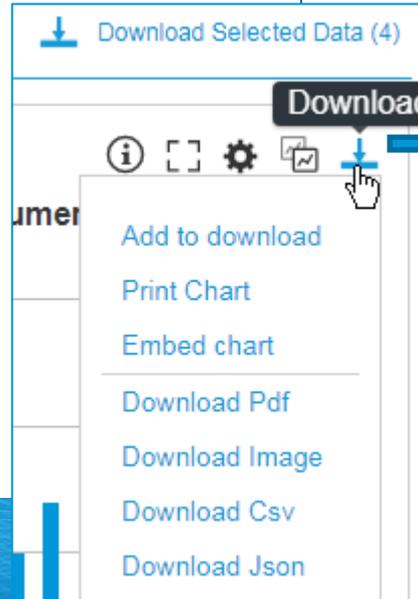
- Embed content

- State data links →
- Infographic and rankings
- Charts update automatically →



- Download data

- Shopping chart feature updates data in Excel or Google Sheets →
- Static data in CSV or JSON



- Print and save charts

- PDF and PNG file formats
- Includes data source text

Learn more about the data...

NOTES AND SOURCES

Description

- Prices of propane and no. 2 heating oil during the winter season, which extends from October to March.

Sources

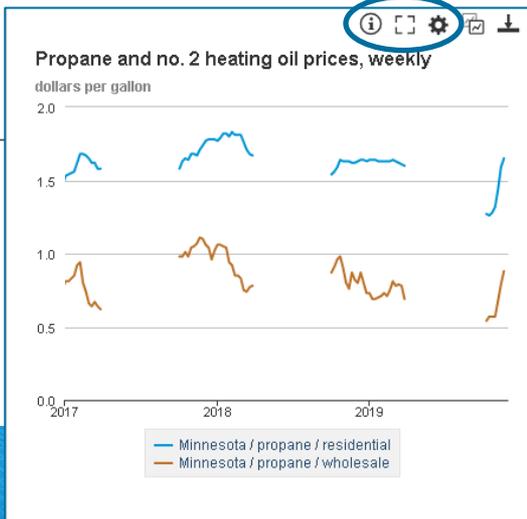
- Residential prices are based on data collected by State Energy Offices per Form EIA-877, *Winter Heating Fuel Telephone Survey*
- Wholesale prices are based on terminal quotes collected by the Oil Price Information Service (OPIS) [↗](#)

Related Data Products

- [Heating Oil and Propane Update](#)
- [Winter Heating Fuels](#)
- [Petroleum Navigator](#)

Methodology, notes, and other documentation

- [Form EIA-877 instructions](#)
- [Heating Oil and Propane Update FAQs for data users](#)
- [Winter fuels explanatory notes](#)
- [OPIS wholesale rack pricing methodology](#) [↗](#)



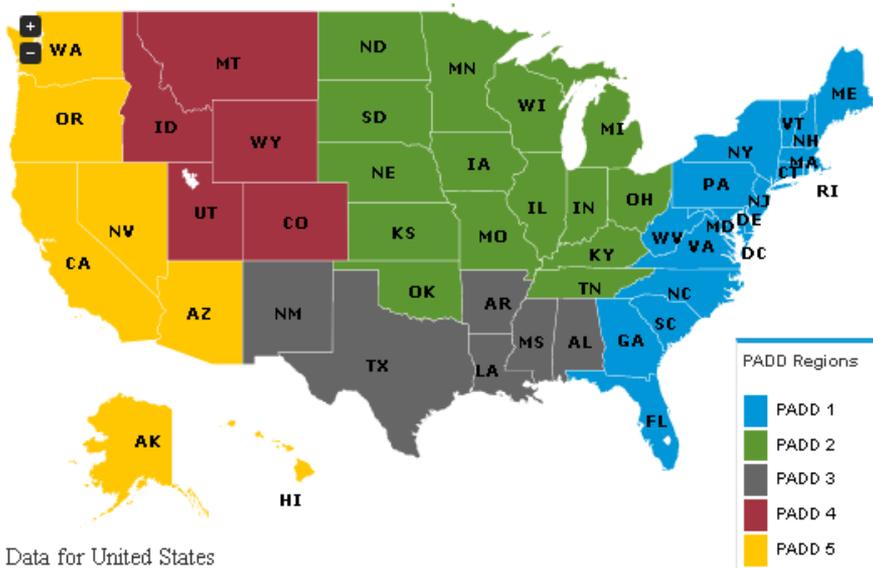
- Each chart includes:
 - Description
 - Sources
 - Related data products
 - Methodology, notes, and other documentation
- Access links via
 - Information icon ⓘ
 - Full screen view []
 - Chart edit ⚙
 - Excel/Google file

Download: Microsoft Excel Add-In
Microsoft Excel Add-In
Google Sheet Add-On

...and connect to more detailed information

WINTER HEATING FUELS

Click on the map to view state-specific heating fuels data | [click to reset to U.S. values](#)



Data for United States

Click on map above to view state-specific heating fuel data

- Propane
- Heating oil
- Natural gas
- Electricity

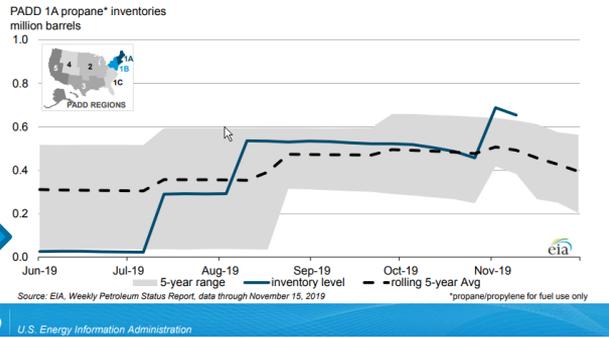
Storage

thousand barrels

125,000

[DOWNLOAD](#)

PADD 1A (New England) propane inventories above the 5-year range



[Sign up for email updates](#)

Presentations

- Winter Propane Market Update (updated every Wednesday during heating season, October–March)
- Winter Fuels Outlook
- Average Consumer Prices and Expenditures for Heating Fuels During the Winter October 2019
- Winter Fuels Outlook October 8, 2019

Real-time weather outlook from NOAA



Survey & Report Information

- Standard Errors
- Methodology
- Methodology Archive
- State coverage
- Survey maps
- Revision reports

More Price Data

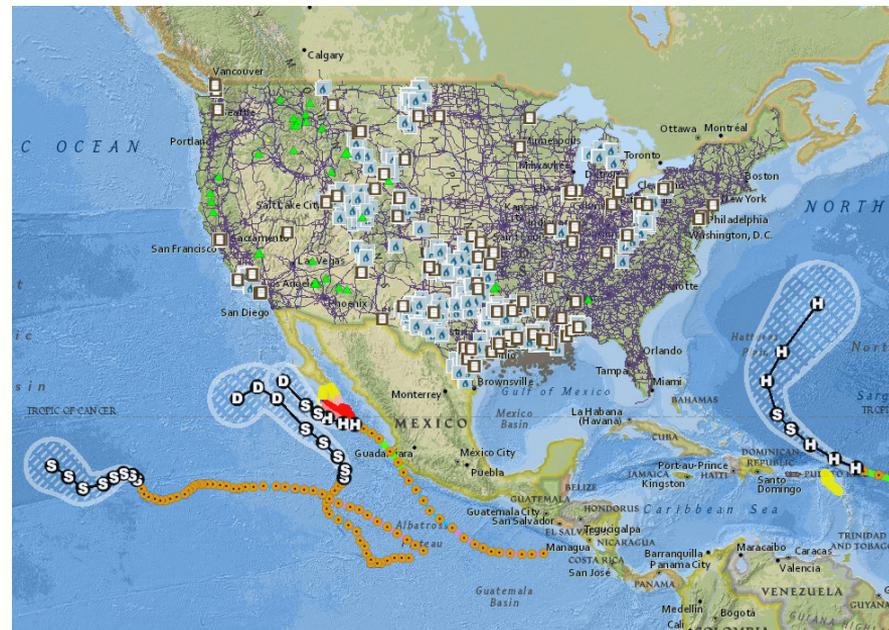
- Spot prices
- NYMEX futures prices

Q: Why are data not collected over the summer? >

FAQs for Data Users
FAQs for Respondents
FAQs for State Energy Offices

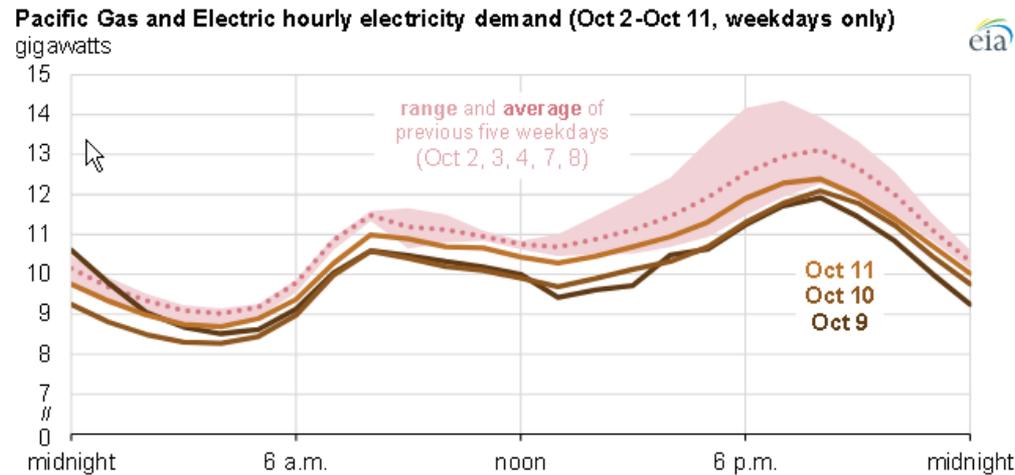
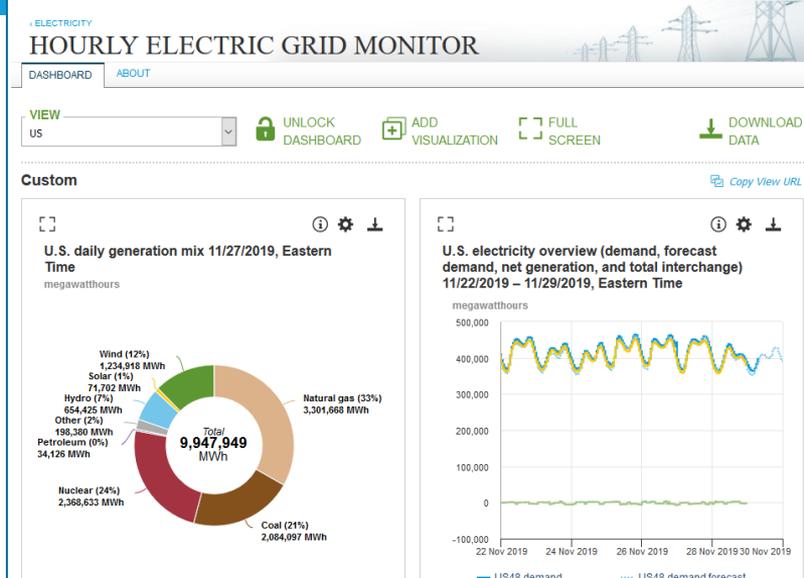
EIA's mapping capabilities include layers showing energy infrastructure and weather systems

- State Energy Portal includes pre-curated energy infrastructure maps by state
- EIA's [Energy Disruptions](#) site helps analysts identify potential threats to energy infrastructure from significant storms and other weather events based on automatic updates from NOAA
- Users can use the zoom and interactive features to identify information of interest by location



Hourly Electric Grid Monitor provides timely electricity data

- Combines data from 65 [electricity balancing authorities](#) that manage electricity grid operations
 - Forecasted and actual electricity demand
 - Electricity flow (interchange) between balancing authorities
 - Electricity generation by energy source
- Timely and historical access to hourly data (e.g. [recent power outages](#))
- Customize your own dashboard [online](#)
- Click [here](#) for more details and how to use the site



Source: U.S. Energy Information Administration, [Hourly Electric Grid Monitor](#)

How to connect with EIA

- Website eia.gov
- Social media
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 - [LinkedIn](#)
 - [YouTube](#)
- [Email updates](#) and [RSS feeds](#)
- EIA experts
 - General inquiries: info@eia.gov
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CONTACT US

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Our average response time is within three business days.

24-hour automated information line about EIA and frequently asked questions

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- Nuclear Experts
- Petroleum Experts

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Email: webmaster@eia.gov

Feedback

Provide comments, suggestions, or report a problem

North Carolina

www.eia.gov/state/?sid=NC

102 photos • 71 views

By: U.S. Energy Information Administration

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Tweets: 20.2K | Following: 269 | Followers: 131K

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Additional EIA contacts

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- Hannah.Breul@eia.gov, Petroleum Markets Analysis
- Kenneth.Platto@eia.gov, U.S. Energy Mapping System
- April.Lee@eia.gov, Hourly Electric Grid Monitor
- Kelsey.Brasher@eia.gov, State and Local Government Outreach