

Hidden gems, early previews, and backstage secrets of EIA.gov



Office of Communications

June 5, 2018

Today you'll be hearing from—

Melinda Hobbs, Director, Office of Web Management

- Continuous improvements to EIA.gov

Dale Sweetnam, Content Operations Team Lead

- Social media

Pauline George, Senior Web Project Manager

- Partnership projects

Steve Luminati, Web Design and Development Team Lead

- Expansion of EIA's online product suite and a sneak peak at what's coming next....

Continuous improvements to EIA.gov

EIA.gov—then

Launched in 1995, EIA.gov was the Department of Energy's first website, consisting of—

- 200 files of all types
- A few dozen web pages

On July 1, 1995—the day EIA.gov launched—it garnered a total of seven user sessions.

Fuel Groups

- [Petroleum](#)
- [Natural Gas](#)
- [Coal](#)
- [Nuclear](#)
- [Alternative/Renewables](#)
- [Electricity](#)
- [Overview](#)

Other Energy Groups

- [International](#)
- [Forecasting](#)
- [Environment](#)
- [Energy Prices](#)
- [Financial](#)
- [State Energy Data](#)
- [End Use Consumption](#)
- [Historic Data and Analysis](#)

Search Enter words or phrases, separated by commas:

Special Features

[Email List](#) -- sign up to receive EIA information via Email. Choose from over 15 mailing lists.

[Energy Links](#) -- Hundreds of links to other energy related sites. This is one of the most complete lists of energy links available. If you have an energy related web site and would like to be added to our links, please contact the [EIA webmaster](#).

FEDSTATS Statistics provided by more than 70 agencies in the United States Federal Government.

[Quiz](#) -- Test your knowledge of energy facts and statistics with the (partially) interactive quiz. Beginner to Advanced levels are available.

[Data Queries \(also known as the Interactive Query System\)](#) -- Tap directly into selected EIA data and perform your own queries.

[Energy Calendar](#) -- A listing of energy related events and activities.

Energy Information Administration

[What's New at EIA](#)

[EIA Publications](#)
A comprehensive list of links to all the EIA publications

Special Features
(Features explained below)

- [Email Lists](#)
- [Energy Links](#)
- [Quiz](#)
- [Data Queries](#)
- [Energy Calendar](#)
- [InfoDisc \(CD-ROM\)](#)

Customer Services
(Services explained below)

- [Feedback](#)
- [Press Releases](#)
- [EIA Contacts](#)
- [Government Information Locator Service \(GILS\)](#)
- [Frequently Asked Questions \(FAQ\)](#)
- [EIA Administrator Presentations](#)
- [EIA Analysis Agenda](#)

Applications
Downloadable applications, models, and surveys

EIA.gov—now

Today, the site—

- Averages more than 1 million visits per month
- Receives record high customer satisfaction levels—91% of respondents last year said they are satisfied or very satisfied with the quality of information, with 30% indicating they were very satisfied
- Consists of 270,000 web pages and houses 750,000 files
- Publishes on its homepage “Today in Energy,” EIA’s daily coverage of current issues and data trends; along with 75 other recurring products, and thousands of analysis reports.
- Serves up email newsletters on 43 topics to more than 575,000 subscribers
- Is part of an ever-expanding range of digital formats and information delivery platforms—including social media, an application programming interface, and interactive mapping—that EIA has implemented to expand access to its information.



In 2017, we updated **66,514** files on EIA.gov at least once

Increasing “findability”

find-a-bil-i-ty *n*

- The quality of being locatable or navigable.
- The degree to which a particular object is easy to discover or locate.

To help you find what you are looking for more easily, we’ve:

- Implemented a tagging system across all our products (based on the proven *Today in Energy* tagging model)
- Refined site-wide architecture and search methodologies
- Highlighted some of our more obscure—but useful—products



Results (6) Close

Frequency: Daily ▼ | Filter by date range: From: MM/DD/YYYY To: MM/DD/YYYY | Legend: D Data A Analysis P Projections

Fires near Fort McMurray are reducing Canada's oil sands production
June 8, 2016
Today In Energy article
Available formats: HTML
Report type: A
Tags: Canada, daily, disruption, international, liquid fuels, natural gas, oil sands, oil/petroleum, production/supply

Upcoming winter storm may cause problems for East Coast energy infrastructure

Newly Released and Upcoming
What's New highlights each new report—everyday.
Upcoming shows what reports will be coming out and when.

Published Weekly
Weekly Natural Gas Storage Report
Every Thursday at 10:30 a.m. EST*
Natural Gas Weekly Update

Clear all

crude oil

Recommended by U.S. Energy Information Administration

Crude oil exports reports
<https://www.eia.gov/reports/#/T1255,T1129>
Selected EIA reports on **crude oil** exports

Crude Oil Production
<https://www.eia.gov/petroleum/production/>
Latest monthly U.S. and state **crude oil** and natural gas production data

EIA @EIAgov
To circumvent depth restrictions, Very Large **Crude** Carriers transporting **crude oil** to or from the U.S. #GulfCoast L... twitter.com/EIAgov/status/761111111
22 minutes ago

Forecasting U.S. Crude Oil Production Webinar
YouTube: 5 months ago
...webinar to examine trends in U.S. **crude oil** production during 2017 and the implications... forecasting U.S. **oil** production, hear from several other ...

What is the difference between **crude oil**, **petroleum** ...
www.eia.gov/tools/faqs/faq.php?id=40&i=8
What is the difference between **crude oil**, petroleum products, and petroleum? **Crude oil** is a mixture of hydrocarbons that exists as a liquid in ...

Refining **Crude Oil** - Energy Explained, Your Guide To
www.eia.gov/energyexplained/index.php?page=oil_refining

Analysis & Projections

RECENT | HIGHLIGHTED REPORTS

- D** **Underground Natural Gas Working Storage Capacity**
Released March 30, 2018 | tags: annual, inventories/stocks, most popular, natural gas, storage
- D** **Southern California Daily Energy Report**
Released March 08, 2018 | tags: California, consumption/demand, electricity, exports/imports, inventories/stocks, most popular, +
- D** **U.S. Crude Oil and Natural Gas Proved Reserves**
Released February 13, 2018 | tags: Henry Hub, WTI, annual, crude oil, exploration, exports/imports, +
- D** **Perspectives on the Development of LNG Market Hubs in the Asia Pacific Region**
Released March 02, 2017 | tags: China, Japan, LNG, South Korea, exports/imports, forecasts/projections, +
- A** **Analysis of the Impacts of the Clean Power Plan**
Released May 22, 2015 | tags: CO2, Congressional & other requests, EPA, NEMS, electric generation, electricity, +

Introducing a more mobile-friendly EIA.gov

Making EIA.gov readable on any screen size—without having to pinch or expand

Currently in phased implementation:

- Launched on the homepage
- Next delivery: second-level pages



Social media

Social media

- Not just sharing and promoting EIA products and resources.
- EIA's Flickr page and YouTube channel provide valuable tools for energy professionals.

The screenshot displays the EIA Flickr page interface. At the top, the EIA logo and 'U.S. Energy Information Administration' are visible, along with '171 Followers' and '0 Following'. The page features several data visualizations:

- Estimated petroleum and natural gas hydrocarbon production in selected countries (2008-2017):** A bar chart showing production in million barrels per day of equivalent for the United States, Russia, Saudi Arabia, and Mexico.
- Estimated petroleum hydrocarbon production in selected countries (2008-2017):** A bar chart showing production in billion cubic feet per day for the United States, Russia, Saudi Arabia, and Mexico.
- Estimated natural gas hydrocarbon production in selected countries (2008-2017):** A bar chart showing production in billion cubic feet per day for the United States, Russia, Saudi Arabia, and Mexico.
- Natural gas pipeline capacity out of the Northeast United States (2000-2018):** A bar chart showing capacity in billion cubic feet per day, with a map of the Northeast region.
- Existing and planned natural gas pipelines in the northeastern United States:** A map showing pipeline locations.
- U.S. propane exports by destination:** A bar chart showing exports in thousand barrels per day.

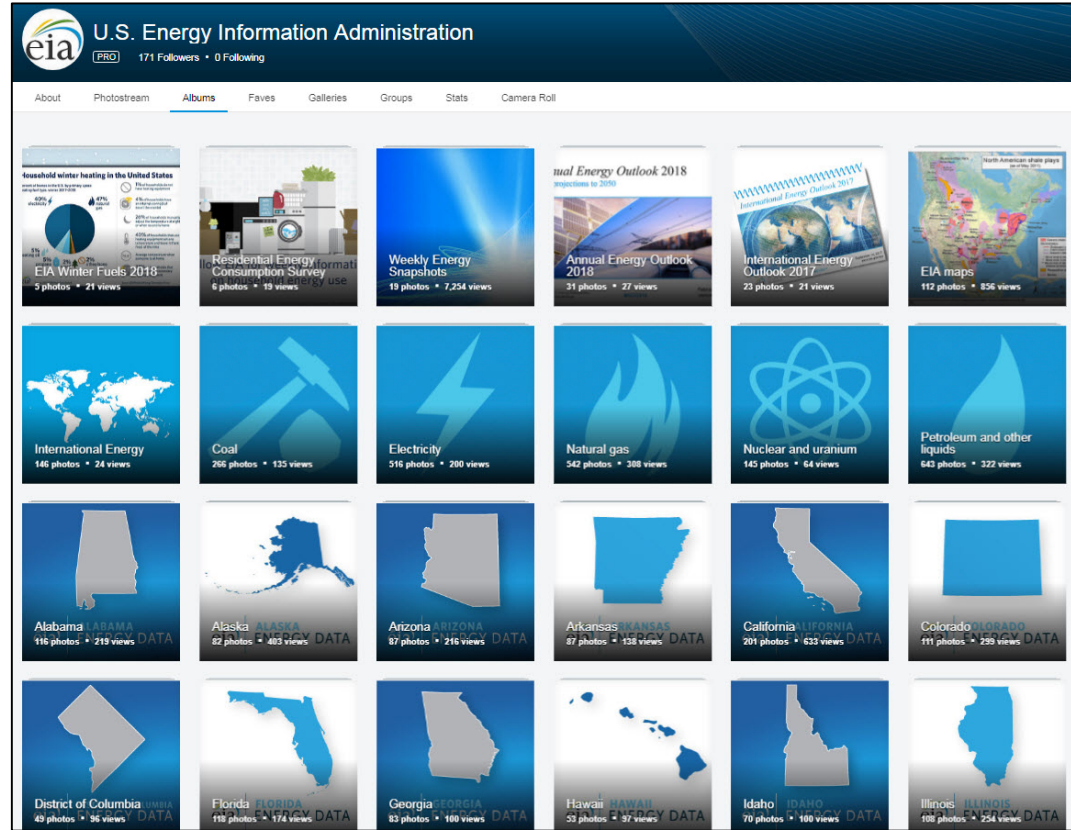
The main content area features a video player for '12 LIVE PRODUCT DEMOS' from the 2018 EIA Energy Conference. The video player includes a progress bar at 0:06 / 0:26 and a 'SUBSCRIBED 1.2K' button. Below the video, there are social media interaction options (Like, Dislike, Share) and a 'SHOW MORE' link.

On the right side, there is a 'Up next' section with a list of recommended videos:

- EIA Reliability Metrics video (444 views)
- Propane Market Indicators and Measures of Supply Adequacy... (20:43)
- National Oil and Gas Gateway 90 second PSA (1:31)
- EIA State Energy Portal webinar (5:29)
- EIA's U.S. Electric System Operating Data Tool webinar (5:26)
- The EIA-90 Safety Zone (20:11)
- Changes to EIA's HGL supply/disposition tables... (11:04)

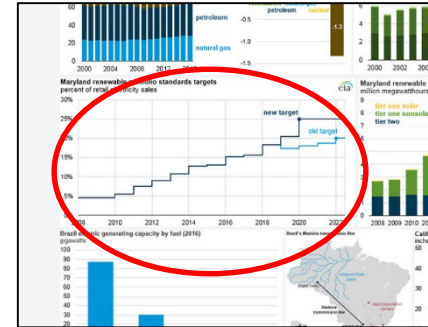
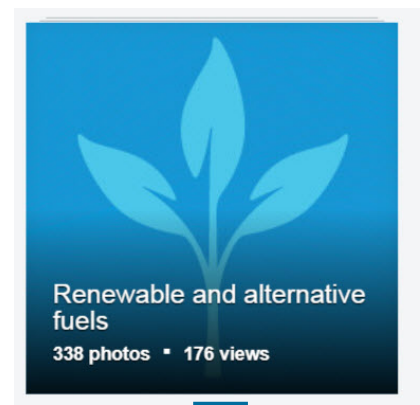
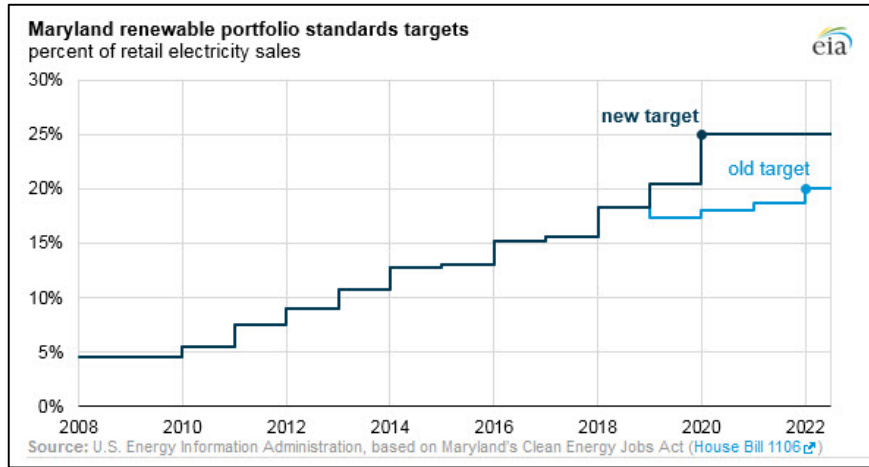
Social media - Flickr

- An easier way for users to search for EIA's data visualizations.
- Search for images by state, topic, or energy source.
- Graphics link to the original report or article.
- Nearly 2,000 EIA images.



Social media - Flickr

- Find EIA images in only a few clicks.



Social media - YouTube

- More than 50 videos on EIA's YouTube channel, and more are on the way.
- Find videos about new EIA products, recorded webinars, product demonstrations, and other informational energy videos.



Partnership projects

National Oil and Gas Gateway – www.nogateway.org

- Collaborative initiative with the Groundwater Protection Council (GWPC).
- Provides a public single national data source of oil & gas well-level information.
- Over a million wells are updated monthly from 9 states.
- Data included: well identification, production data, completion information, geologic information, well test data, underground injection control data, and hydraulic fracturing data provided by FracFocus.

About

The Gateway is a collaborative effort of the Ground Water Protection Council (GWPC) and its member states, the U.S. Department of Energy's Energy Information Administration (EIA), and the Office of Fossil Energy. State participation is voluntary. The Gateway is the first publicly available website of well-level data across the nation. Drawing from the active data systems of multiple states, this consolidated data source provides a dynamic and timely view of U.S. oil and natural gas well activity.

The Gateway includes data on well identification, production, completion, well tests, underground injection control, geologic information, and other data elements determined by each state. The Gateway also integrates the hydraulic fracturing chemical disclosures from FracFocus.

Only individual states may change or modify the data in the Gateway. State data are updated monthly by the states in the Gateway.



The U.S. Energy Information Administration (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.



The Ground Water Protection Council (GWPC) is a nonprofit 501(c)(3) organization whose members consist of state ground water regulatory agencies which come together within the GWPC organization to mutually work toward the protection of the nation's ground water supplies. The purpose of the GWPC is to promote and ensure the use of best management practices and fair but effective laws regarding comprehensive ground water protection.



States assisting in the early design of the Gateway and among the first to share data on this platform utilize the GWPC's Risk Based Data Management System (RBDMS), a suite of tools that assist state regulatory agencies in the management of underground injection and oil and gas activities. The core of the RBDMS community includes state data technicians and managers who face similar challenges and network to share best practices and develop innovative, practical data solutions that can enable state programs to more efficiently manage their mission critical responsibilities.



The U.S. Department of Energy's Office of Oil and Natural Gas, within the Office of Fossil Energy, supports research and policy options to ensure environmentally sustainable domestic and global supplies of oil and natural gas. The Fossil Energy organization is made up of about 1,000 scientists, engineers, technicians, and administrative staff.

State Data Report

The state data report maps an individual state's well type and status into the Gateway standardized categories. Each report also includes current state well counts by data categories.

[Download All State Data Report](#)

Download Participating States Data Report



Alabama



Arkansas



Colorado



Kentucky



Mississippi



Nebraska



New York



Oklahoma



Utah



West Virginia

North American Cooperation on Energy Information Initiative – www.nacei.org

English | Español | Français

- Collaborative effort between United States, Canadian, and Mexican energy statistic agencies.
- Energy trade data and maps are updated twice yearly.
- Features a cross reference of energy terminology defined by each country and international energy organizations.
- All content on the website is available in English, Spanish and French.

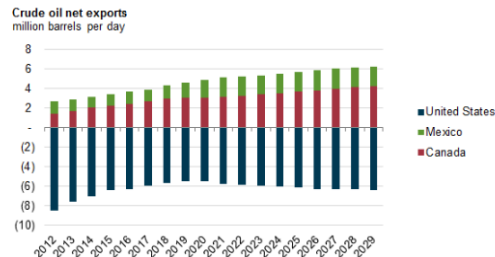
North American Cooperation on Energy Information (NACEI)

OVERVIEW DATA MAPS **OUTLOOK**

Introduction from the Outlook

Context & Motivation

The energy markets of Canada, Mexico, and the United States are becoming increasingly interdependent as physical infrastructure continues to be built across North America. With free trade treatment of many energy commodities, the three neighboring countries include each other's largest import and export markets for many of these commodities.



Disclaimer: Estimates were provided by each country using a limited set of common assumptions and do not necessarily reflect the countries' own individual outlooks; combined results do not reflect an integrated tri-country model and may contain unresolved inconsistencies.

In the full report.. [pdf](#)

[Contacts](#)

[Introduction](#)

[Context & motivation](#)

[Outlooks and modeling systems](#)

[Scope of current effort](#)

[Caveats](#)

[Results](#)

[Crude oil](#)

[Refined petroleum products and other liquids](#)

[Natural gas](#)

[Electricity](#)

[Major findings](#)

[Appendix](#)

Expansion of EIA's online product suite and sneak peak at what's coming next



U.S. Energy Mapping System

What it is:

- More than 60 interactive layers, using GIS data, including real-time feeds from NOAA and FEMA.

Currently in:

- Always in active evolution
- Recently Added:
 - Wind turbine data
Sources: USGS, Lawrence Berkley National Lab, American Wind Energy Association
 - Improved resolution for electric power transmission lines
Source: FGDC.go

The screenshot displays the U.S. Energy Mapping System interface. At the top, it shows the U.S. States logo and navigation options like 'OVERVIEW', 'DATA', and 'ANALYSIS'. Below this, there's a main map area with several overlays. One prominent overlay is the 'FLOOD VULNERABILITY ASSESSMENT MAP' which includes a legend and a search bar. Another overlay is 'ENERGY DISRUPTIONS' showing a map of the Eastern United States with various energy infrastructure markers. A third overlay is 'Energy Infrastructure with Real-Time Storm Information' showing a map of the Gulf of Mexico region. On the right side, there's a sidebar with 'Additional Resources' including links to 'Water Watcher', 'Hurricanes', and 'Historical Events'. The interface is clean and professional, with a blue and white color scheme.



+ Sources & Uses

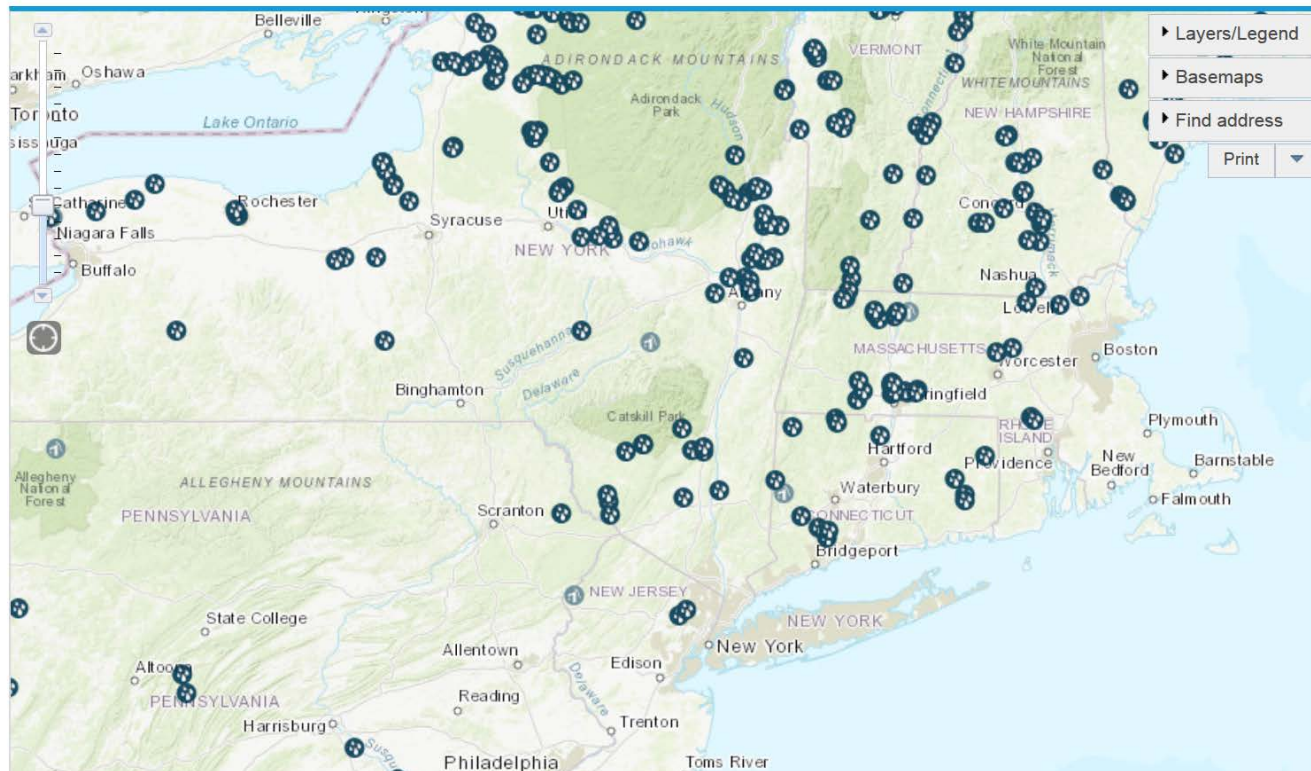
+ Topics

+ Geography



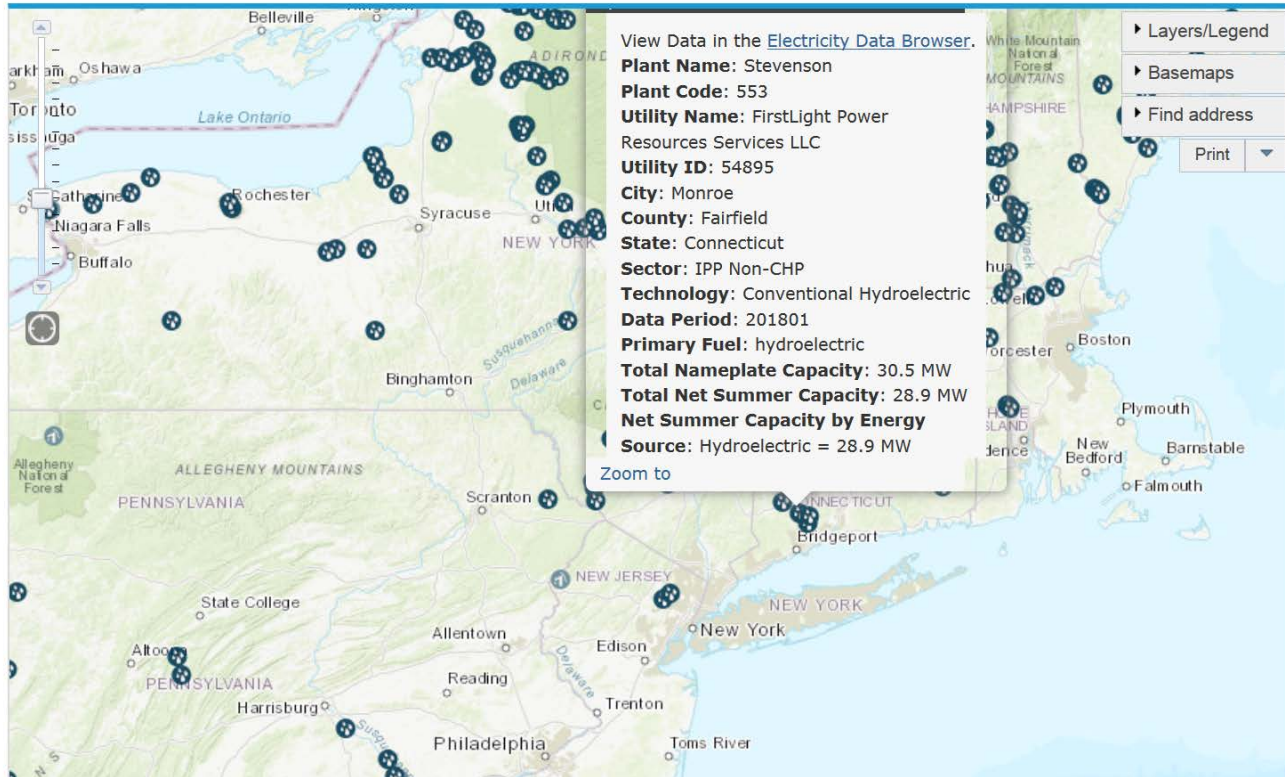
Search eia.gov

U.S. Energy Mapping System





U.S. Energy Mapping System



Change data set

Plant level data

OR

View a pre-generated report

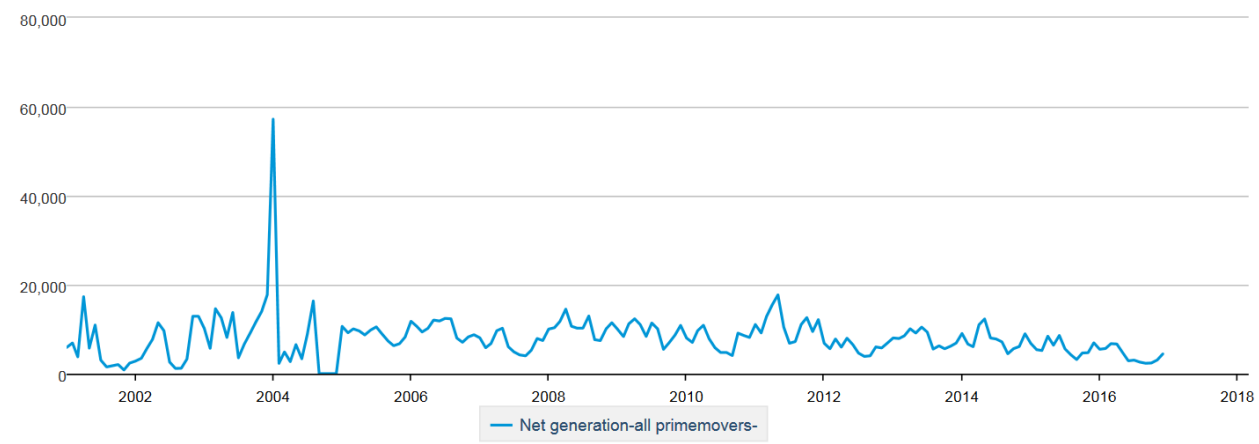
Choose a report



Stevenson, monthly

DOWNLOAD

megawatthours



Source: U.S. Energy Information Administration

CHART INDEXING OPTIONS: **None** Index to start as percent Index to start as value

Mapping: New disruption additions

What's Next:

- Energy Disruptions Layers
 - Wildfires
 - Floods
 - Earthquakes
 - Volcanoes & fire hazard areas
- Analysis Features
- ETA: Maybe / soon
(Sourcing & validating data)



Lava flows from Kilauea volcano near Puna Geothermal Venture power plant, May 21, 2018.

Water data now available through the Electricity Data Browser

What it is:

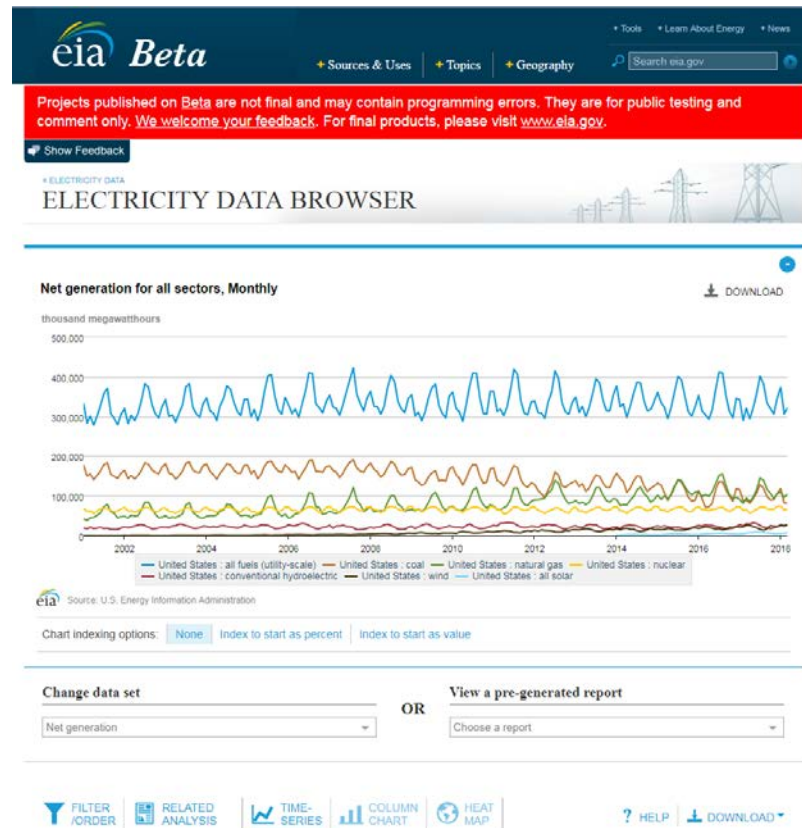
- Most generating plants use water in some way.
- Adds water consumption, discharge, source, rates, and other data to our first interactive web tool.

Currently in:

- Beta Testing

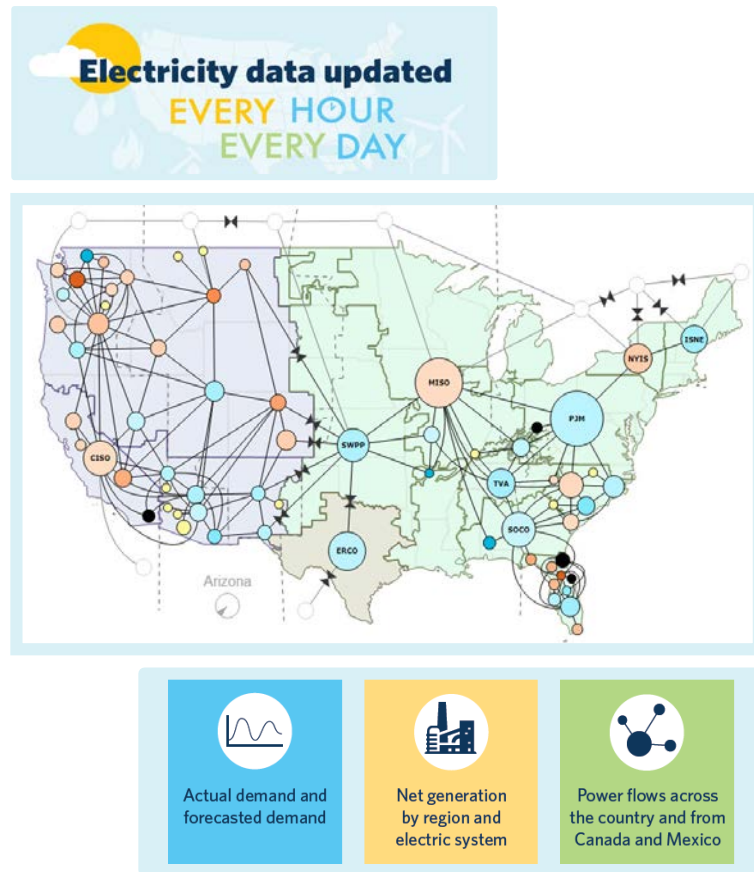
Expected launch:

- Now in beta. Official launch: soon(?)



The U.S. Electric System Operating Data Tool

- Provides a single view of the U.S. electric grid
- Features nearly real-time demand data—plus analysis and visualizations—for all 67 electric system balancing authorities.
- Informs electricity providers, policymakers, and the public about hourly electricity demand, generation, and flows.
- Can also be used to find information about the electric system's recovery after a hurricane or other widespread power interruption.
- Now in public launch of version 1.



U.S. Electric System Operating Data Tool—phase 2

What it is:

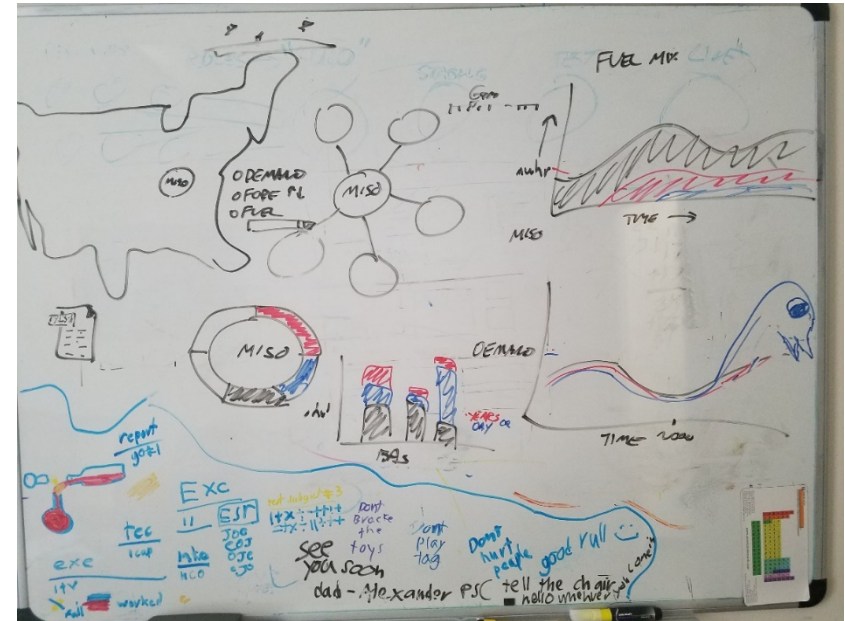
- Adding energy mix and higher resolution for sub balancing authorities

Currently in:

- Whiteboard & data gathering

Expected launch:

- Beta in November 2018 (?)



Coming soon—State Energy Portal 4.0

What it is:

- Enhancements to provide regional data, timelier data, ability to customize and filter, more visualizations, new ways to find information and options to export data.

Currently in:

- Development – refining user experience, implementing features, identifying other state-applicable EIA and non-EIA data sources.

Expected launch:

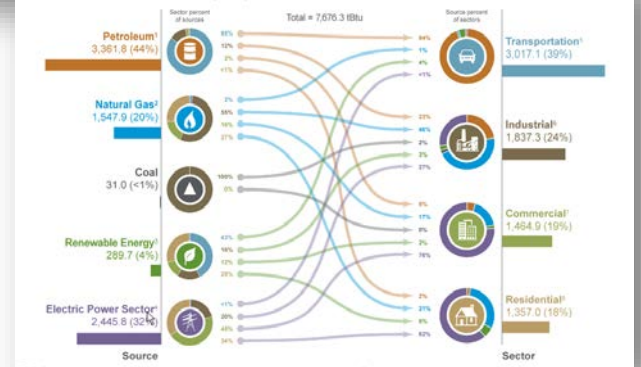
- ~ Fall 2018 (?)



Customizable Dashboards,
Easier Navigation,
State Rankings
and more

Intuitive
Infographics

End-use energy consumption 2015 by source and sector, estimates for California trillion British thermal units (tBtu)



Coming soon(ish)—Petroleum Data Browser

What it is:

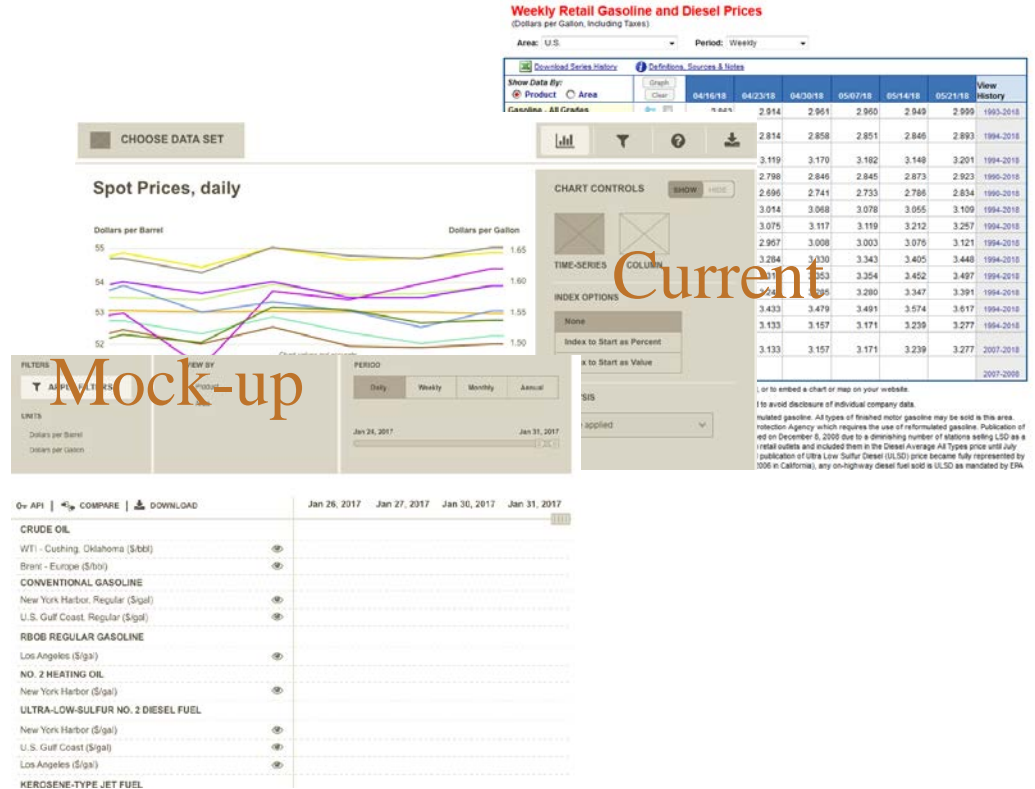
- An update to the current format to provide more data and functionality

Currently in:

- Development—modernizing our data collection & processing

Next steps:

- Start on UX design.
- We'll be looking for usability testing volunteers in early 2019.



Coming soon— Weekly Natural Gas Storage Dashboard

What it is:

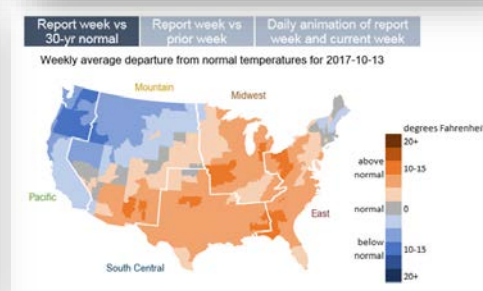
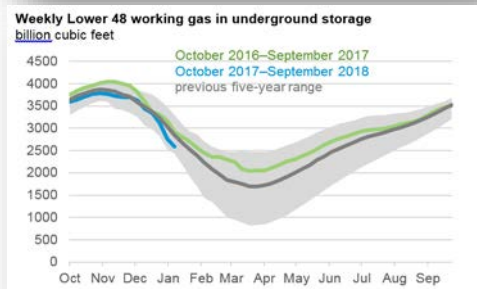
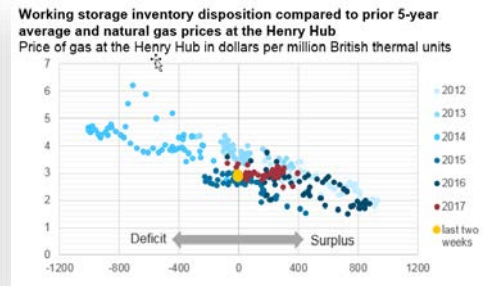
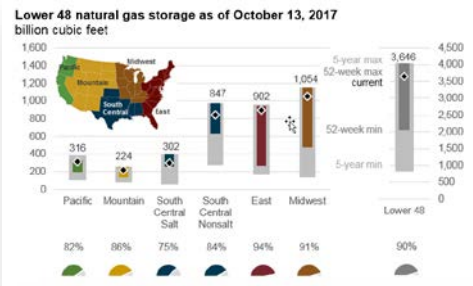
- Weekly natural gas storage visualizations and commentary on national and regional levels with data from EIA and outside sources.

Currently in:

- Development and feature refinement.

Expected launch:

- Summer 2018



.....and much more

Open data program



Open data program

1.8 million time series organized into 93,000 categories



214,268,982 API requests in 2017

This far outweighs the number of page views on the EIA.gov website (48,880,685)



17,978 unique API keys

Still very much a power users' tool, but those who use it do so enthusiastically



Add-Ons for MS Excel and Google Sheets

Automatically ingest EIA & FRED data directly into your own spreadsheets for fast analysis.



Embed EIA Graphs & Charts

Include EIA's graphics and charts on your website, with on-the-fly data updates and easy setup.

Open data—what's next

- More data series into API
 - Drilling Productivity Report
 - Consumption: RECS, MECS, CBECS
 - Natural gas company-level data
- Widespread, automated API publishing
- Better analytics and flow controls
- Update Excel add-in



A word on release dates in this presentation...



Questions? Comments?

