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.
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
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.
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
• 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.

- 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.
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
View Data in the Electricity Data Browser.

**Plant Name:** Stevenson

**Plant Code:** 553

**Utility Name:** FirstLight Power Resources Services LLC

**Utility ID:** 54895

**City:** Monroe

**County:** Fairfield

**State:** Connecticut

**Sector:** IPP Non-CHP

**Technology:** Conventional Hydroelectric

**Data Period:** 201801

**Primary Fuel:** hydroelectric

**Total Nameplate Capacity:** 30.3 MW

**Total Net Summer Capacity:** 28.9 MW

**Net Summer Capacity by Energy Source:** Hydroelectric = 28.9 MW
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 (?)
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…

WHEN WILL THEN BE NOW?  SOON.
Questions? Comments?