

Energy Information Administration

EIA Overview



For

*U.S.-China Oil & Gas Industry Forum
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By

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Mission: 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 is the Nation's premier source of energy information and, by law, its 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', 'Geography', a search bar, and 'Tools', 'Learn About Energy', 'News'. Below the navigation is a large banner image of solar panels and a power line tower, with a text overlay: 'Annual Energy Outlook 2016 Early Release with summary of Reference case projections through 2040'. The main content area is divided into three columns: 'What's New' with links to 'AEO2016 Early Release Summary of Two Cases' and '2012 CBECs consumption and expenditures, detailed tables, and public use microdata'; 'Today in Energy' dated 'Posted May 18, 2016' featuring the article 'Future power sector carbon dioxide emissions depend on status of Clean Power Plan' and a line graph; and 'Data Highlights' with various energy price and inventory updates. The line graph shows 'U.S. energy-related carbon dioxide (CO2) emissions (1990-2040)' in million metric tons, comparing 'total energy-related CO2 emissions' and 'power sector CO2 emissions' for 'No Clean Power Plan case' and 'Reference case (includes Clean Power Plan)'. The x-axis represents years from 1990 to 2040, and the y-axis represents emissions in million metric tons from 0 to 7,000. The graph shows a general downward trend in emissions over time, with the 'Reference case' showing lower emissions than the 'No Clean Power Plan case'.

EIA information is used by a range of stakeholders

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

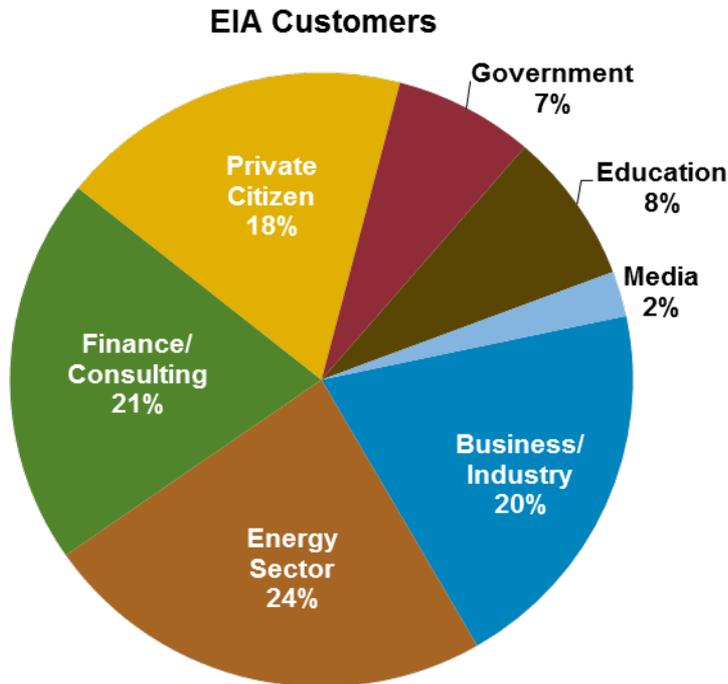
- Commodities Analysts – market response to supply data

Media/Education

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

Private Citizens

- Public – research gasoline prices



Source: 2015 Customer Satisfaction Survey

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

EIA's data collection integrates all energy sectors

Reserves, production, & trade

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

Transformation, distribution, & storage

- Petroleum & biofuel refiners & terminals
- Natural gas storage & distribution
- Electricity generation & distribution

End-use consumption

- Commercial
- Residential
- Industrial
- Transportation



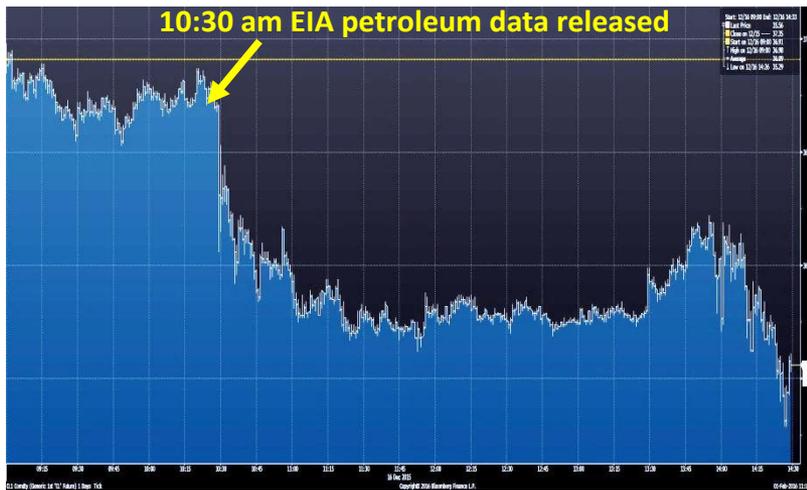
Recent accomplishments

- U.S. Drilling Productivity Report
- Assessment of shale outside of the U.S.
- Crude export analysis
- EIA Flicker page and social media growth
- EIA-930 Hourly Balancing Authority Operations Report
- Monthly solar PV capacity and generation
- Crude by rail
- Expanded natural gas production survey and U.S. crude oil production data with API gravity
- North American energy information cooperation
- New natural gas storage regions in weekly data

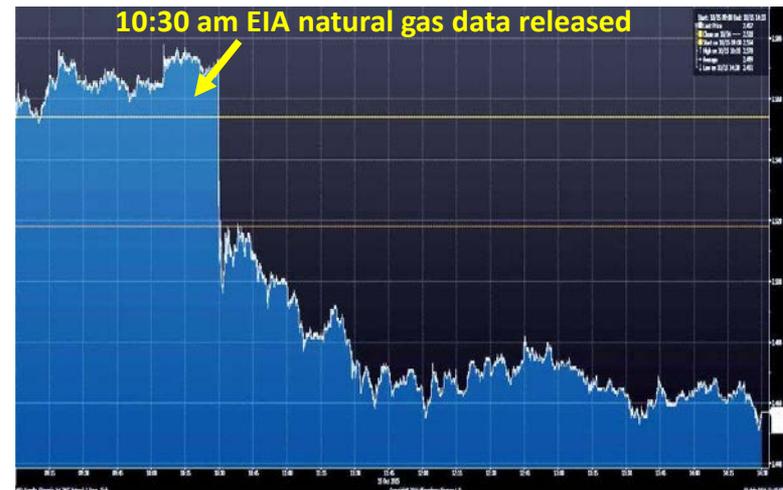
The release of EIA's oil and natural gas inventory data has an immediate impact on energy markets

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 one of the nation's Principal Federal Economic Indicators.
- The Weekly Petroleum Status Report (WPSR) provides statistics on oil and petroleum product stocks, imports, and production.



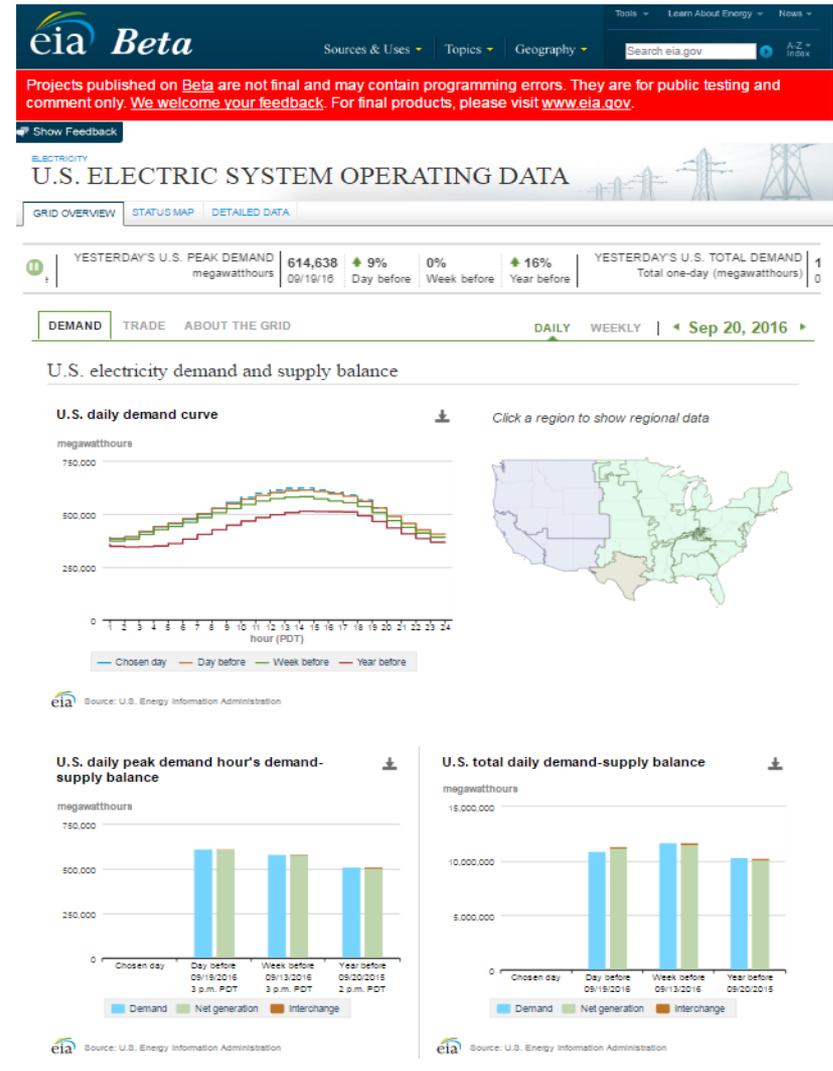
Data Represent NYMEX Light, Sweet Crude Oil (WTI) Near-Month Futures Contract December 16, 2015
Source: Bloomberg Finance LP (February 1, 2016)



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

Hourly electric system operating data

- EIA has released a public beta version of its near real-time hourly data on the operation of the U.S. electric system
- Availability of data will inform investments in technologies and programs to take advantage of the time varying nature of electric system operations
- Data collection and a highly visible webpage will serve situational awareness, policy, and educational objectives
- Readily accessible long-term data series will support analysts interested in intra-day and seasonal patterns of demand



EIA analysis brings context and meaning to energy data

Short-Term Energy Outlook (monthly)

- Forecasts U.S. supplies, demands, imports, stocks, and prices 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

International Energy Outlook

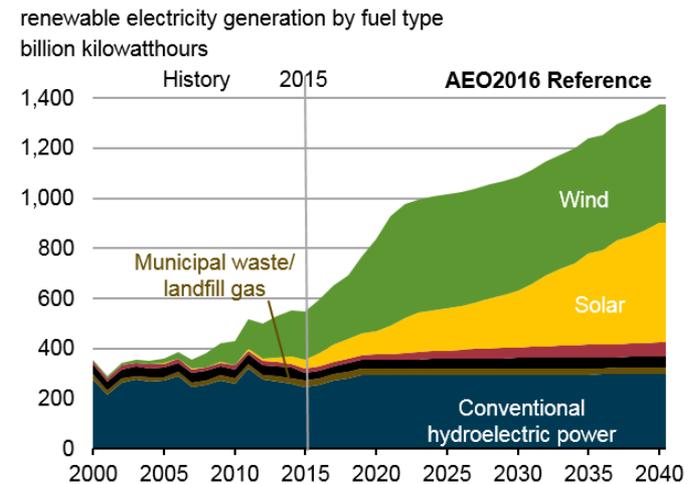
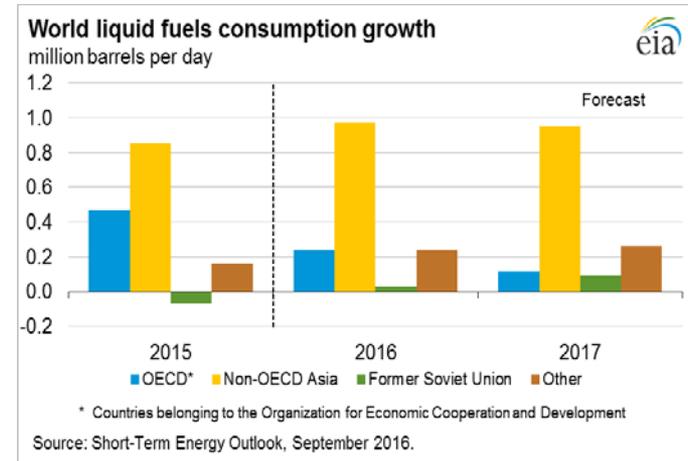
- Assesses international crude, liquid fuel, and natural gas markets through 2040

Ad Hoc Reporting and Analysis

- Reports for Congress and key stakeholders (e.g. Iran sanctions, refinery outage, and energy production on Federal lands)

Today in Energy

- Short article analyzing a topical energy trend, published daily on the EIA homepage



Source: Annual Energy Outlook, 2016

EIA will continue key energy data projects in 2017

- Begin 2017 Commercial Energy Building Consumption Survey (CBECS)
- Complete data collection and publish preliminary results of the 2015 Residential Energy Consumption Survey (RECS)
- Increase integration of EIA energy data with Canada and Mexico
- Expand Mid-Term energy analysis capabilities with greater focus on international linkages affecting U.S. energy markets
- Extend EIA's energy by rail data beyond crude oil and ethanol to include shipments of propane
- Fund the ongoing operations of new survey instruments, including oil and gas production data, hourly electricity data, and densified biomass

For more information

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

Annual Energy Outlook | www.eia.gov/aeo

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

International Energy Outlook | www.eia.gov/ieo

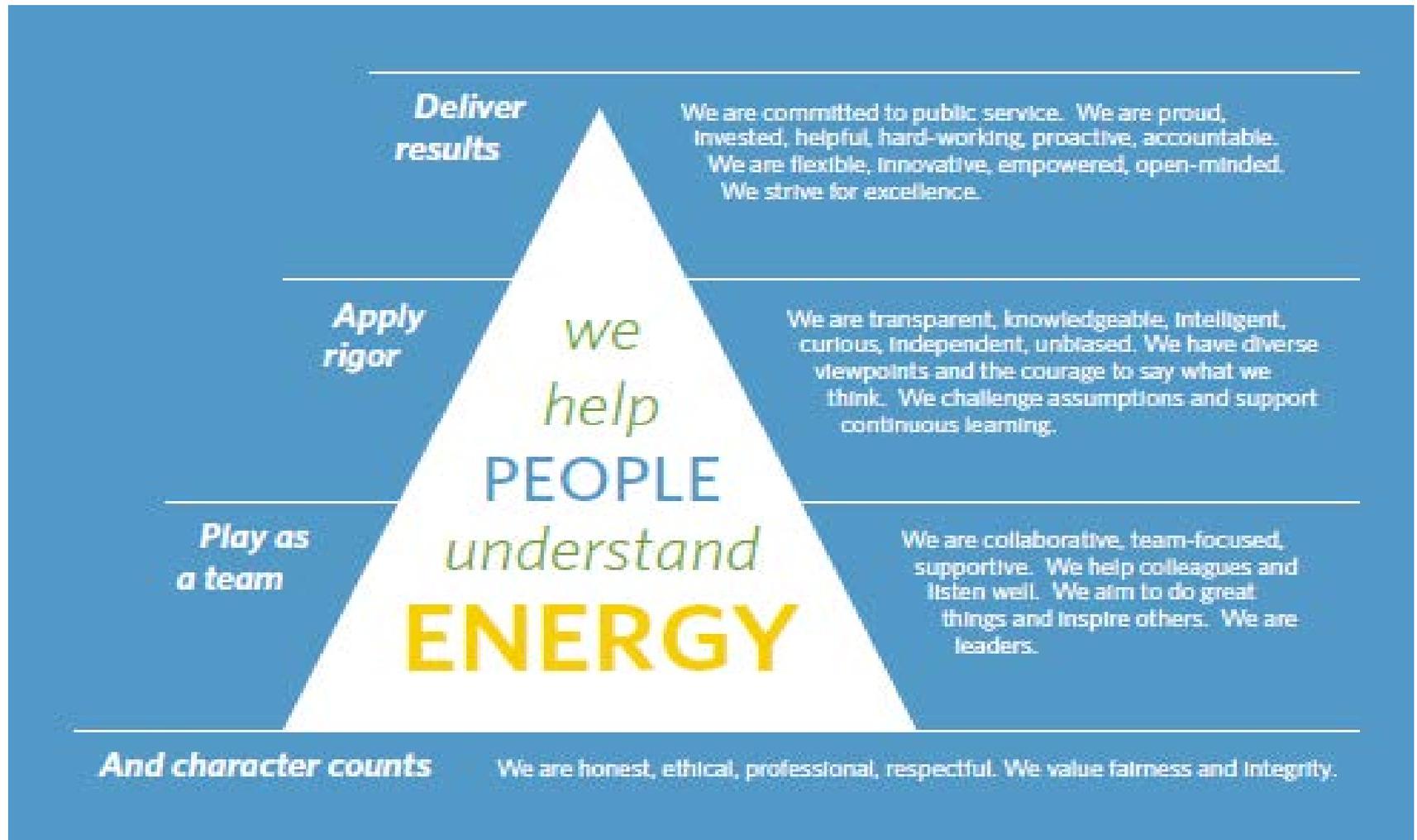
Monthly Energy Review | www.eia.gov/mer

Today in Energy | www.eia.gov/todayinenergy

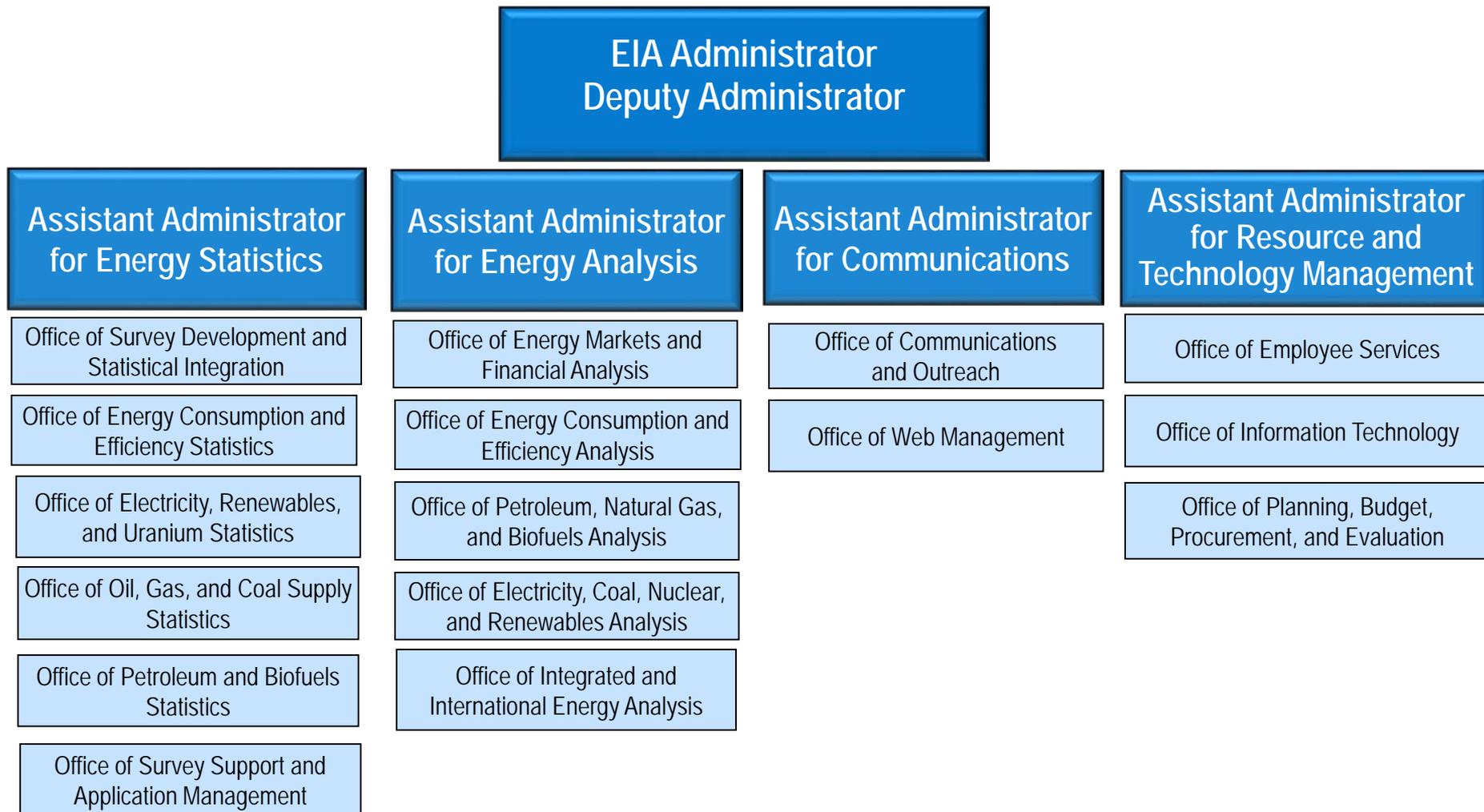
State Energy Portal | www.eia.gov/state

Drilling Productivity Report | www.eia.gov/petroleum/drilling/

Our core values and vision



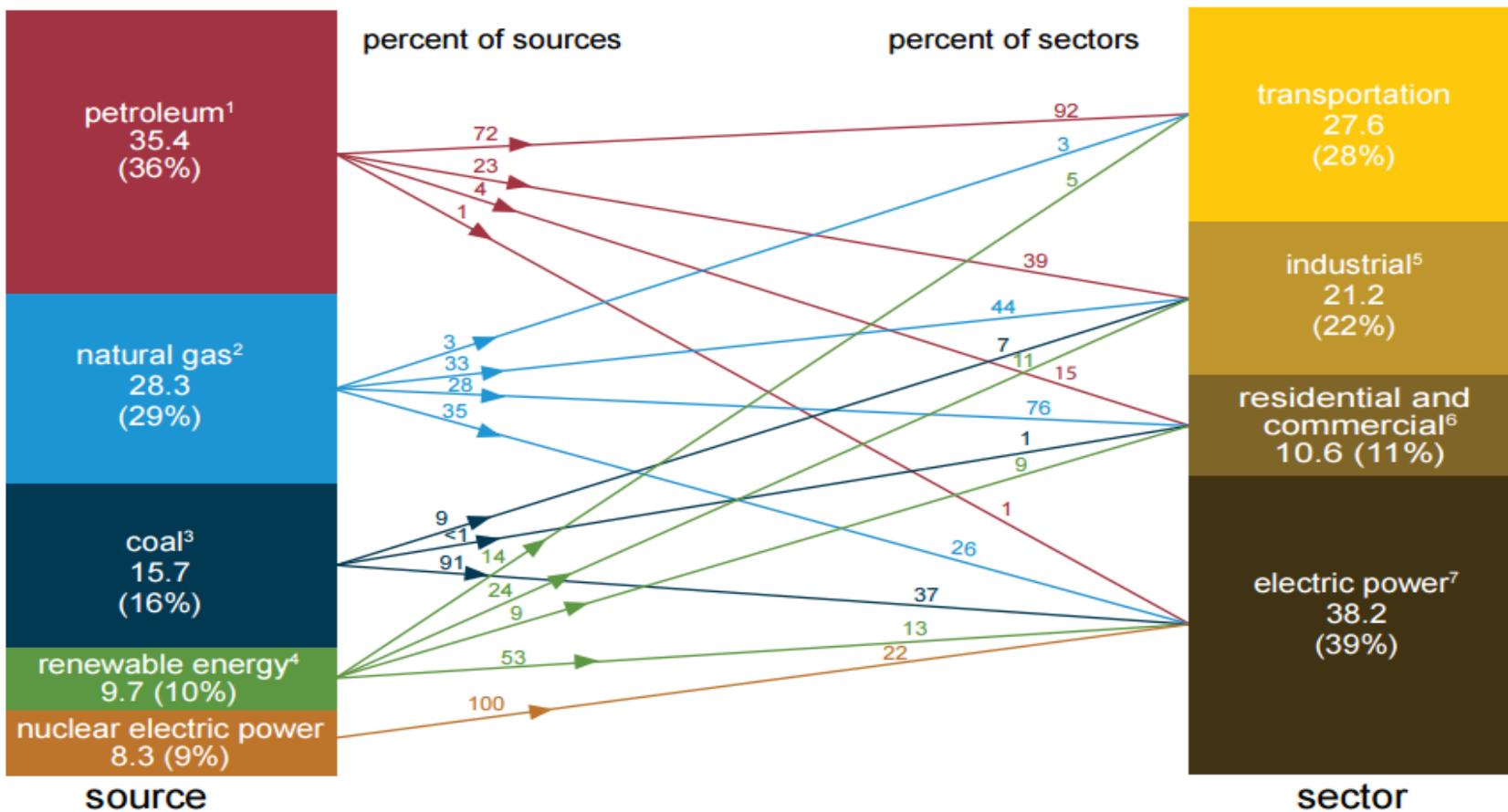
EIA's organization structure



EIA's data illustrate how energy is used

U.S. primary energy consumption by source and sector, 2015

Total = 97.7 quadrillion British thermal units (Btu)



Source: U.S. Energy Information Administration, Monthly Energy Review (June 2016)

EIA is delivering impactful products that are helping people understand energy



Oil, Natural Gas, and Crude-by-Rail data

Began monthly collection of new crude oil and expanded natural gas production data from operators, including data on oil quality. EIA also added monthly reporting on crude by rail movements.



North American Energy

The United States began collaboration with its Canadian and Mexican counterparts to create North American energy maps, to reconcile energy trade flows data between the three countries.



Distributed Solar

Initiated monthly state-level estimates of small-scale distributed solar photovoltaic (PV), including rooftop generation.



Petroleum Product Exports

Prepared reports and analyses of the implications of removing restrictions on U.S. crude oil exports, including modeling of prices, production, and trade effects.



Energy Accessibility

EIA launched a new international energy data portal, and an Excel add-in allowing the public to find and download directly into a spreadsheet.

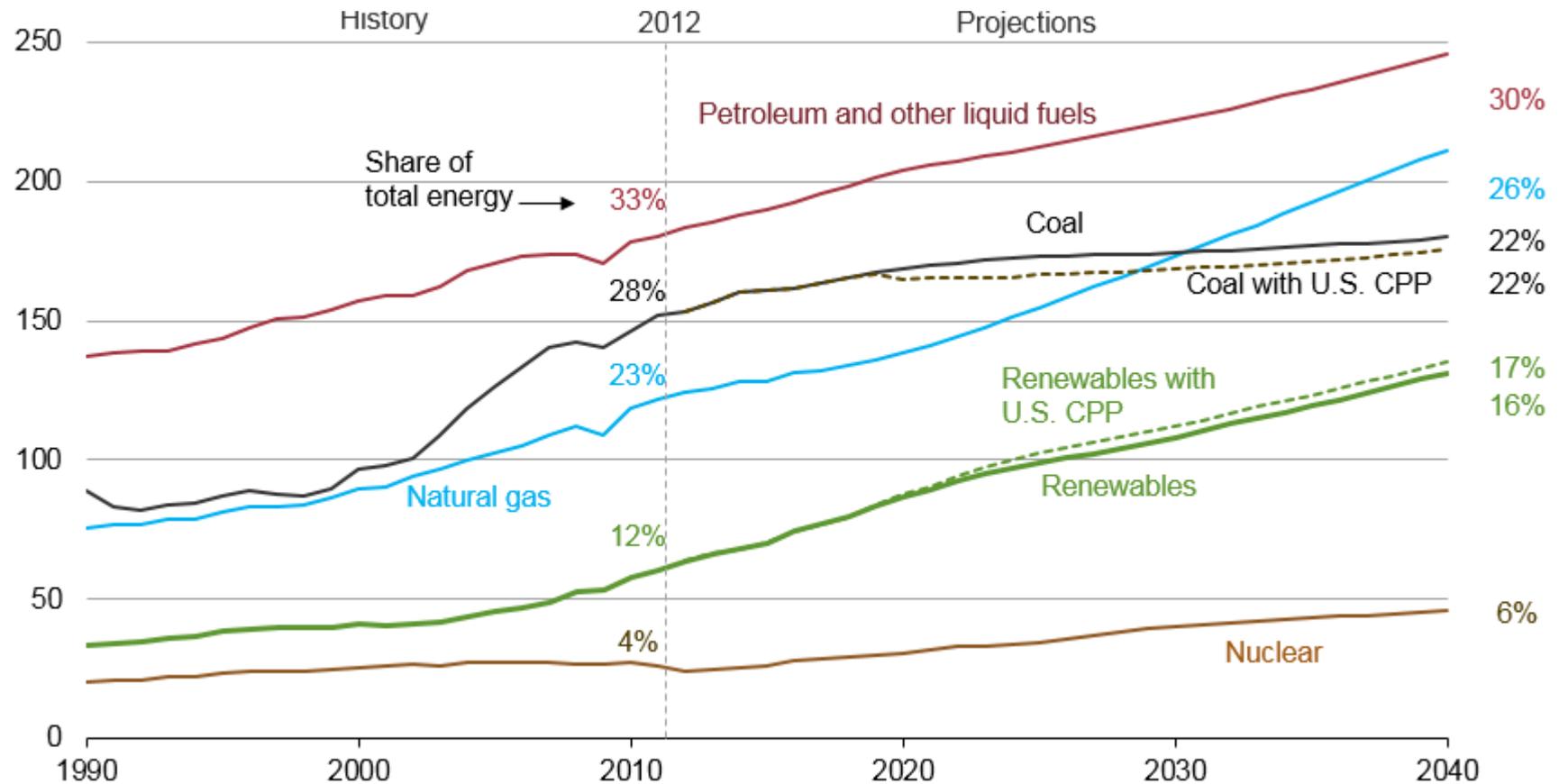


Electricity

Began collection of real-time electricity data from the EIA-930, the world's first hourly energy data collection by a government statistical agency.

Global energy shares: renewables grow fastest, coal use plateaus, natural gas surpasses coal by 2030, and oil maintains its leading share

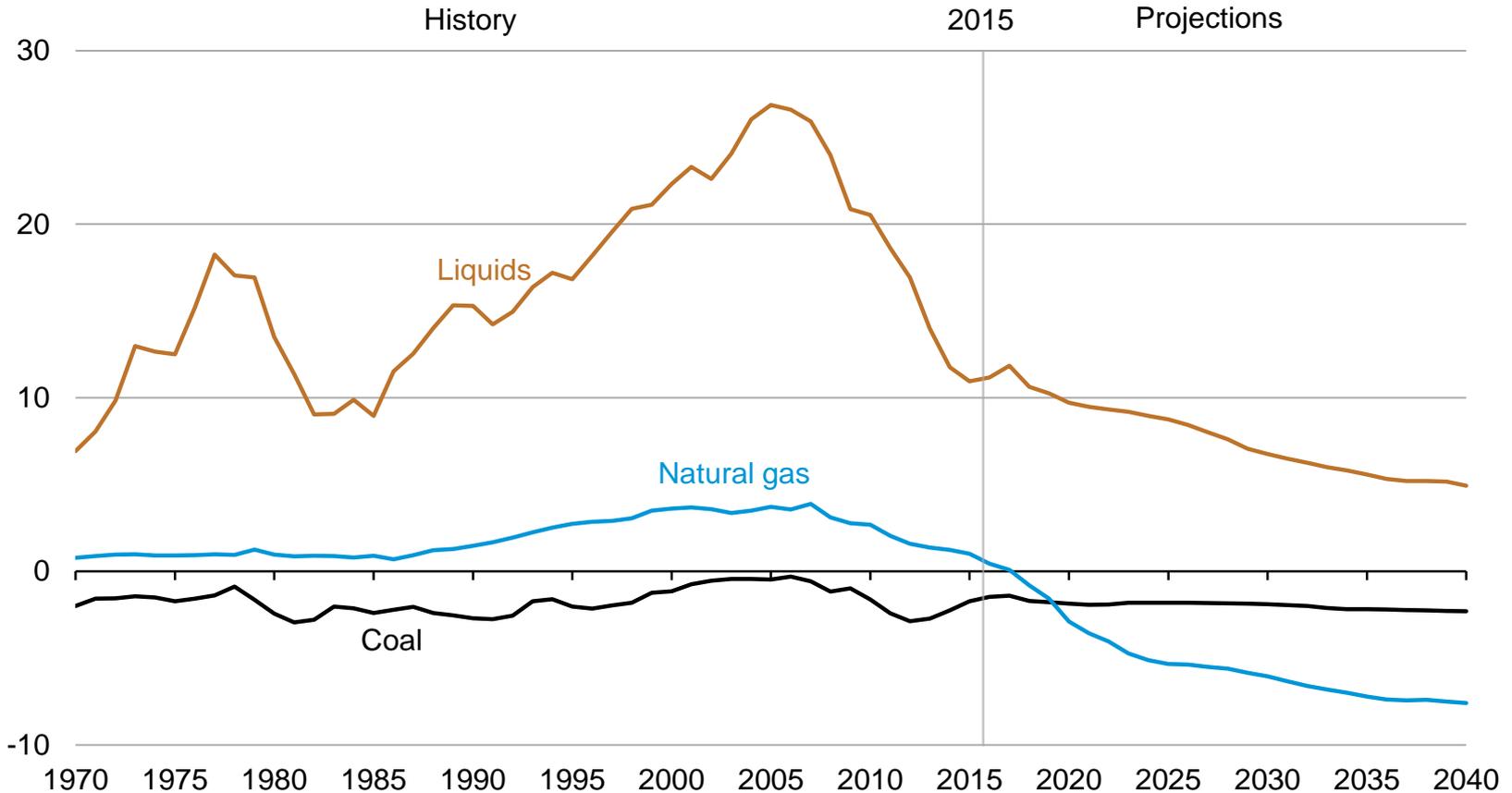
world energy consumption
quadrillion Btu



Source: EIA, International Energy Outlook 2016 and EIA, Analysis of the Impacts of the Clean Power Plan (May 2015)

Clean Power Plan accelerates shift to lower-carbon options for generation, led by growth in renewables and gas-fired generation

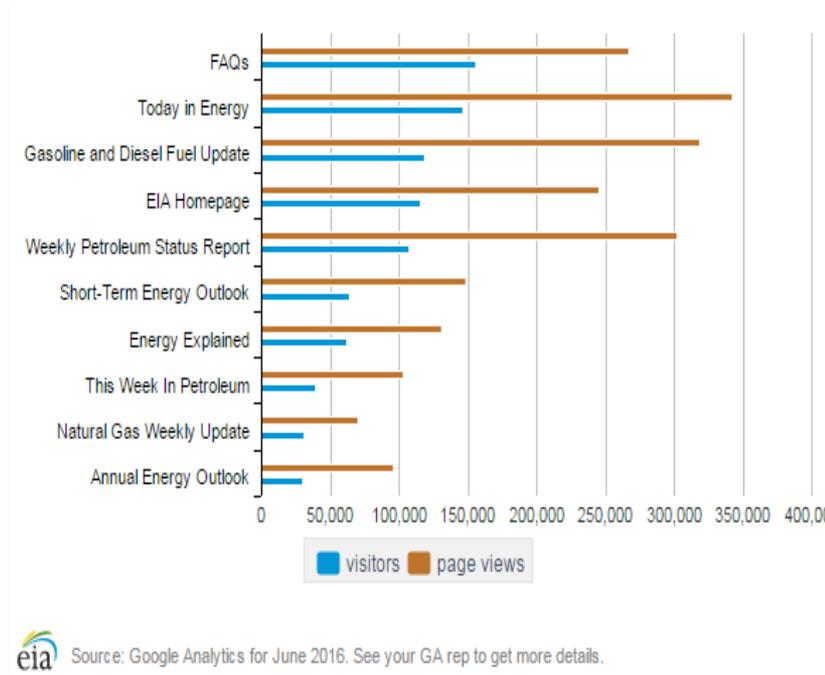
U.S. net imports
quadrillion Btu



Source: EIA, Annual Energy Outlook 2016

EIA is continuously evolving its web platforms and products to improve information accessibility

Top visitors and pageviews by product



International Energy Portal

