EIA Overview

For
Standing Committee on Natural Resources, House of Commons
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By
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Topics

• EIA Mission, Vision, and Values
• EIA Organizational Structure
• EIA Data Collection
• EIA Analysis
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.
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

**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

Source: 2017 EIA Web Customer Survey
EIA’s organization structure

EIA Administrator
Deputy Administrator

Assistant Administrator for Energy Statistics
- Office of Survey Development and Statistical Integration
- Office of Energy Consumption and Efficiency Statistics
- Office of Electricity, Renewables, and Uranium Statistics
- Office of Oil, Gas, and Coal Supply Statistics
- Office of Petroleum and Biofuels Statistics

Assistant Administrator for Energy Analysis
- Office of Energy Markets and Financial Analysis
- Office of Energy Consumption and Efficiency Analysis
- Office of Petroleum, Natural Gas, and Biofuels Analysis
- Office of Electricity, Coal, Nuclear, and Renewables Analysis
- Office of Integrated and International Energy Analysis

Assistant Administrator for Communications
- Office of Communications and Outreach
- Office of Web Management

Assistant Administrator for Resource and Technology Management
- Office of Organizational Administration, Planning, and Development
- Office of Information Technology
- Office of Financial Management and Program Evaluation
- Office of Acquisition Management
Common Characteristics of Principal Federal Statistical Agencies

- Produce objective data that are relevant to policy issues
- Achieve and maintain credibility among data users
  - Transparent and clear on data sources and survey methods
- Achieve and maintain trust among data providers
  - Transparent on use and purpose
  - Transparent on how data will be protected (laws and rules)
  - Assure that the provider understand the value of the data provided to the nation
- Achieve and maintain a strong position of independence from the appearance and reality of political influence and control
EIA Standards and Guidelines

Current EIA statistical programs were independently developed, deployed, and managed

- The programs follow the U.S. Office of Management and Budget (OMB) Standards and Guidelines for Statistical Surveys
- **EIA specific standards** supplement the OMB standards and are updated as needed.
EIA Statistical Business Process Lifecycle

Specify Needs
- R&D and create business cases
- Business Cases Approval and Prioritization
- Develop OMB Information Collection Request (ICR) timeline/schedule

Implementation (Design, Build/Configure)
- Develop Frame/Sample Frame
- Cognitive interview/testing
- Select statistical methods
- OMB ICR approval
- Develop design phase requirements & usability testing

Operations (Collect, Process, Analyze and Disseminate)
- Quality control (edits)
- Imputation
- Estimation, modeling, weighting
- Disclosure protection
- Reporting (aggregate data edits)

Evaluation
- Review and Recommendations
- Review Board Approval
- Action Plans

John Conti | House of Commons
Ottawa, ON Canada, May 3, 2018
## Current surveys operated by EIA

| Category                                | Hourly (real time) & daily | Weekly | Monthly | Quarterly | Annual | Multi-year | Standby/On occasion | Total *
|-----------------------------------------|----------------------------|--------|---------|-----------|--------|------------|---------------------|--------
| Petroleum                               |                            | 10     | 14      | 4         |        |            |                     | 28     
| Natural gas                             |                            | 1      | 6       | 3         | 1      |            |                     | 11     
| Coal                                    |                            | 1      | 2       |           | 2      |            |                     | 5      
| Uranium and nuclear fuel                |                            | 1      | 2       |           |        |            |                     | 2      
| Alternative fuel                        |                            | 1      | 1       |           |        |            |                     | 2      
| Renewables                              |                            | 1      | 1       |           |        |            |                     | 2      
| Electric power                          |                            | 1      | 3       | 1         | 4      |            |                     | 7      
| Energy consumption                      |                            |        | 3       |           |        | 3          |                     | 3      
| Finance/environment/other               |                            |        |         |           |        | 1          |                     | 1      
| **Total**                               | **1**                      | **11** | **23**  | **3**     | **15** | **3**      | **4**               | **57** |

* Some surveys span multiple categories and collection frequencies; details are available at http://www.eia.gov/survey/*
Characteristics of Energy Surveys

• Supply surveys - small number of companies in industry
  – Relatively easy to identify and survey all companies
  – Usually dominated by large companies

• Marketing surveys - large number of companies
  – Compiling a respondent list is difficult and expensive
  – Probability- or cutoff-based samples commonly used

• Consumption surveys
  – Millions of consumers, requires complex respondent sampling
    • Sample sizes are large, every 2 – 4 years
EIA analysis brings context and meaning to energy data

*Today in Energy (daily)*
- Short article analyzing a topical energy trend, published daily on the EIA homepage

*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 (annual)*
- Assesses international crude, liquid fuel, and natural gas markets through 2050

*Ad Hoc Reporting and Analysis*
- Reports for Congress and key stakeholders (e.g. Iran sanctions, refinery outage, and energy production on Federal lands)
Greatest impact lies at the intersection of statistics, analysis, and independence. Independence is unique and forms the basis of our credibility.