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Energy Data Collection and Dissemination in the U.S.: Supply Side and Demand Side Data

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Acknowledgements and Overview

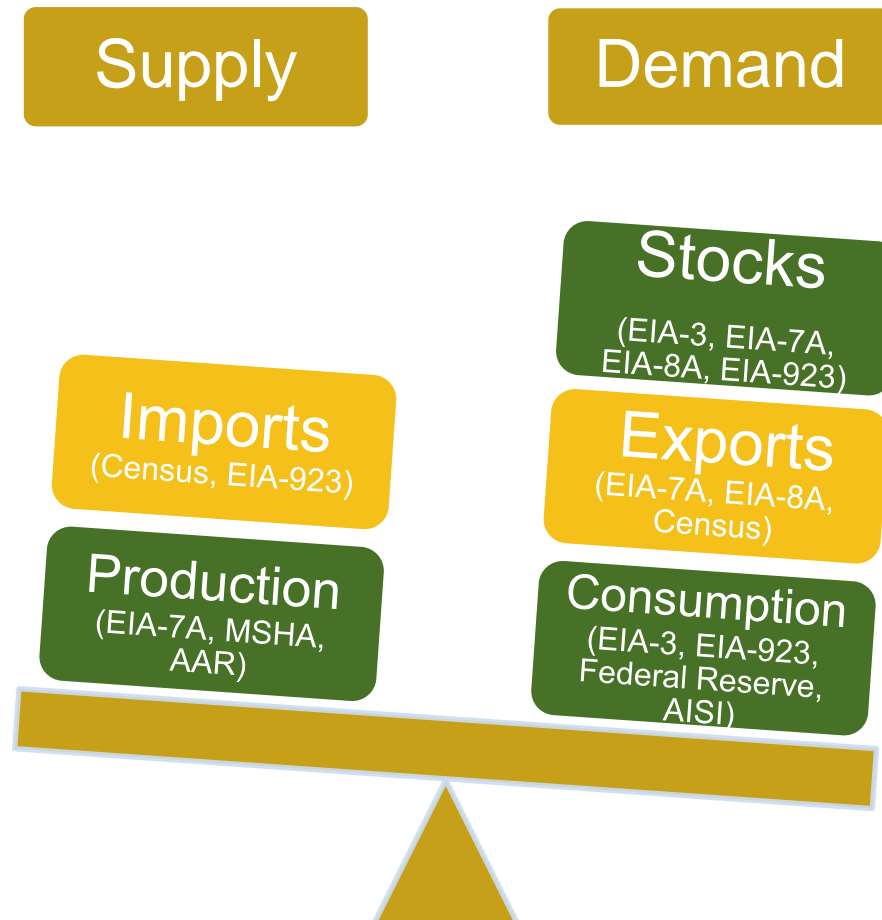
- ▶ We thank Rosalyn Berry from the U.S. Energy Information Administration for help with preparing of this presentation

- ▶ Presentation uses coal as an example of energy data collection and dissemination in the U.S.
 - Staffing
 - Surveys and crosschecks
 - Data products and publications



Data Collection

- ▶ Supply side and demand side data: example of coal





Coal Staffing at U.S. EIA

- ▶ U.S. Energy Information Administration (EIA) collects, analyzes, and disseminates coal data to promote sound policymaking, efficient markets, and public understanding of energy
- ▶ Total number of employees 355 (federal staff), including:
 - 145 in the Office of Energy Statistics
 - 126 in the Office of Energy Analysis
- ▶ Coal Statistics Team: 8 full-time staff (3 federal, 5 contractor)
- ▶ EIA's Coal Statistics Team uses Statistical Analysis Software (SAS) to aggregate, impute, withhold, and format coal data for publication
- ▶ Many of the Office of Statistics' employees have a competent skill level in SAS programming

Coal Surveys

- ▶ Supply side:
 - EIA-7A Annual Survey of Coal Production and Preparation (60 data elements, 3.25 hours)

- ▶ Demand side:
 - EIA-3 Quarterly Survey of Industrial, Commercial & Institutional Coal Users (30-35 data elements, 1.25 hour)
 - EIA-8A Annual Survey of Coal Stocks and Coal Exports (20 data elements, 1 hour)
 - EIA-923 Power Plant Operations Report (40 data elements, 2.4 hours)
 - EIA-846 Manufacturing Energy Consumption Survey (number of questions and time depends on industry)

- ▶ 2 stand by surveys:
 - EIA-6 Emergency Coal Supply Survey
 - EIA-20 Emergency Weekly Coal Monitoring Survey for Coal Burning Power Producers



Surveys and Crosschecks

- ▶ All forms and methodologies are available at <https://www.eia.gov/Survey/>
- ▶ Number of respondents varies from less than a hundred (exports) to several thousands (power plants)
- ▶ EIA crosschecks coal data using other sources:
 - Mine Safety and Health Administration (MSHA)
 - U.S. Census Bureau
 - New York Mercantile Exchange (NYMEX)
 - Association of American Railroads (AAR)
 - American Iron and Steel Institute (AISI)
 - SNL Energy research company (SNL)



EIA's Coal Data Products



Quarterly Coal Report

- EIA-3
- Census
- MSHA

Weekly Coal Production

- AAR

Weekly Coal Markets

- SNL
- NYMEX

Quarterly Coal Distribution Report

- EIA-3
- EIA-7A
- EIA-923

Monthly Energy Review

- Census
- Federal Reserve
- AISI
- Annual Coal Report

Annual Coal Report

- EIA-7A
- EIA-3
- EIA-8A
- EIA-923
- MSHA

Annual Coal Distribution Report

- EIA-3
- EIA-7A
- EIA-8A
- EIA-923
- Census

Coal Browser

- EIA-3
- EIA-7A
- EIA-923
- MSHA
- Census



Key Publications

▶ Annual Coal Reports:

Coal production; productive capacity; recoverable reserves; employment; productivity; domestic markets; average mine sales price; average consumer prices

▶ Annual Coal Distribution Reports:

Domestic coal distribution by origin state, destination state, consumer category, and method of transportation; summary of foreign coal distribution by coal-producing state

▶ Monthly Energy Reviews:

Total energy production, consumption, and trade; energy prices; overviews of petroleum, natural gas, coal, electricity, nuclear energy, renewable energy, and international petroleum; carbon dioxide emissions; and data unit conversion values.

▶ All tables are available in PDF and Excel formats

Data Browser

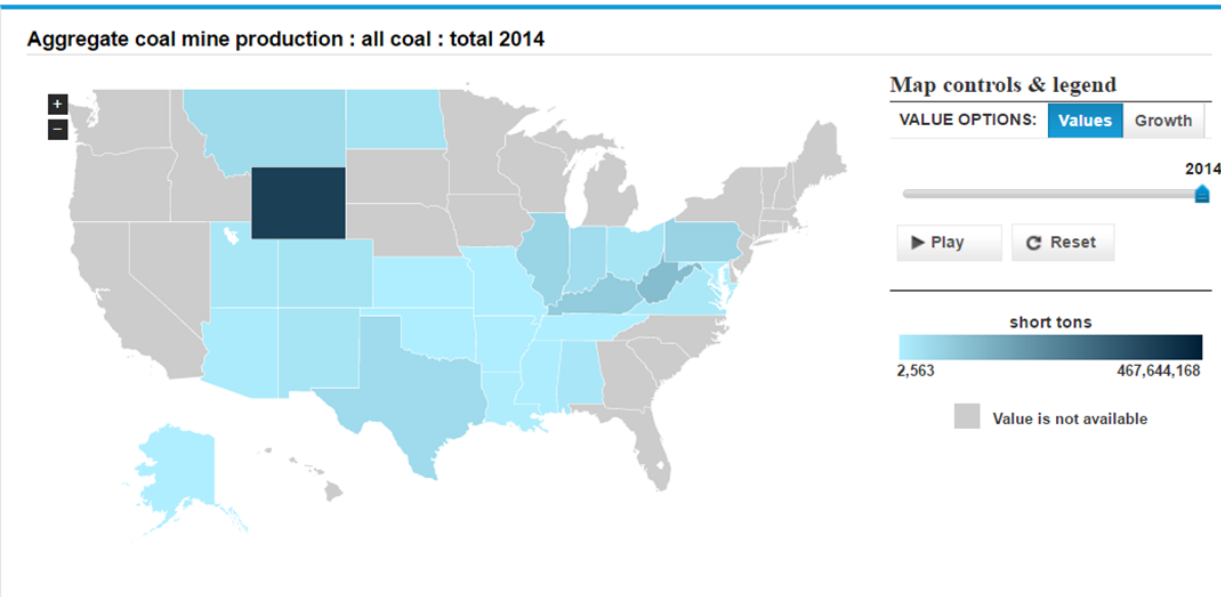
Interactive tool to present data from surveys:

- Coal mine production
- Shipment of coal
- Imports and exports
- Coal markets
- Consumption
- Reserves and capacity

<https://www.eia.gov/beta/coal/data/browser/>

Static maps
<https://www.eia.gov/state/maps.php?v=Coal>

Change data set OR View a pre-generated report



Change data set OR View a pre-generated report

FILTER/ORDER Time-series Column U.S. map Coal basin map ? HELP DOWNLOAD

Pin API 2001 2014 Annual

	2011	2012	2013	2014
Aggregate coal mine production for all coal (short tons)				
Total				
United States	095,627,536	1,016,458,418	984,841,779	1,000,048,758
Middle Atlantic (total)	59,181,827	54,718,802	54,008,748	60,909,704



Additional resources

▶ For more information

- ▶ U.S. Energy Information Administration home page | www.eia.gov
- ▶ Coal Overview page | www.eia.gov/coal
- ▶ Coal Data page | www.eia.gov/coal/data.php
- ▶ Coal Browser | www.eia.gov/beta/coal/data/browser
- ▶ Coal Transportation Rates | www.eia.gov/coal/transportationrates
- ▶ Short-Term Energy Outlook | www.eia.gov/steo
- ▶ Annual Energy Outlook | www.eia.gov/aeo
- ▶ International Energy Outlook | www.eia.gov/ieo

