

EPA State Clean Energy-Environment
Technical Forum, May 22 , 2008

EIA's State Data

Barbara T. Fichman
Energy Profiles Program Manager
Energy Information Administration



EIA's Mission

To provide high-quality, policy-neutral energy information to meet requirements of Congress, the Federal Government, markets, and the public in manner that promotes:

- ❖ sound policymaking
- ❖ efficient markets
- ❖ and public understanding.





Key Messages

- ❖ EIA's State energy and emissions data are extensive, accurate, and easy to find.
- ❖ Energy data are useful during supply disruptions and times of price instability, as well as in assessing policy options.
- ❖ Additional State-level, particularly end-use data, are sought after but expensive.



A Three-Part Presentation

Part I. EIA's State data collection

Part II. Applications of State data

Part III. State data wish list



EIA's data come from a large collection of surveys

Energy Industry

("supplier surveys")

- ❖ Oil & Gas Producers
- ❖ Petroleum Refineries
- ❖ Coal Companies
- ❖ Electric Power Producers

Energy Consumers

- ❖ Households
- ❖ Commercial Bldgs
- ❖ Manufacturers



It's easy to find EIA's State data

eia Energy Information Administration
Official Energy Statistics from the U.S. Government

Search:

[Glossary](#)

Coal News and Markets
Weekly updates on prices, production, and more

Features:
[Energy Conference](#)
[Coal News and Markets](#)
[Now Hiring!](#)
[Natural Gas Year in Review '07](#)
[Analytical Report](#)

A – Z Topics
 A B C D E F G H I
 J K L M N O P Q R
 S T U V W XYZ

Latest Data
Crude Spot Price - 4/3/2008
 \$103.92 /bbl wk chg: -3.64 yr chg: +39.33
Retail Gasoline Price - 3/31/2008
 \$3.290/gal wk chg: +0.031 yr chg: +0.583

Most Requested
Latest Market Updates
 - On-Highway Retail Diesel Prices
 - Gasoline and Diesel Fuel Update
 - Natural Gas Storage Report
 - This Week in Petroleum
 - Weekly Petroleum Status Report
Forecasts
 - Annual Energy Outlook
 - Short-Term Energy Outlook
 - International Energy Outlook
State and Country Information
 - Country Energy Profiles
 - State Energy Profiles
 List of EIA Reports
 EIA Survey Forms

Energy Sources
Petroleum
 Crude oil, gasoline, heating oil, diesel, propane, jet fuel, and other petroleum products...
Natural Gas
 Exploration and reserves, storage, imports and exports, production, prices, sales...
Electricity
 Sales, revenue and prices, power plants, fuel use, stocks, generation, trade, demand & emissions...
Coal
 Reserves, production, prices, employment and productivity, distribution, stocks, imports and exports...
Renewable & Alternative Fuels
 Includes hydropower, solar, wind, geothermal, biomass and ethanol...
Nuclear
 Uranium fuel, nuclear reactors, generation, spent fuel...

Topics
Forecasts & Analyses
 Monthly and yearly energy forecasts, analyses of energy topics, financial analyses, Congressional reports...
Environment
 Greenhouse gas data, voluntary reporting, electric power plant emissions...
Households, Buildings & Industry
 Energy use in homes, commercial buildings, manufacturing and transportation...
Geography
International
 Country energy information, detailed and overviews...
State & U.S. Historical Data Overview
 Monthly and yearly energy statistics allow for comparison across all fuels and sectors...

News
 What's New

Basic Information
 Energy Basics 101

Energy Kid's Page
 Classroom projects, games, energy basics...

Start with the gateway page

Home > State & US Historical Data > State Energy Profiles > U.S. Overview

U.S. Overview

STATE ENERGY PROFILES

Last Update: April 03, 2008
Next Update: April 10, 2008

Select a State



Comprehensive State Energy Profiles with detailed data for each State

Alabama	Florida	Kansas	Minnesota	New Jersey	Oregon	Utah
Alaska	Georgia	Kentucky	Mississippi	New Mexico	Pennsylvania	Vermont
Arizona	Hawaii	Louisiana	Missouri	New York	Rhode Island	Virginia
Arkansas	Idaho	Maine	Montana	North Carolina	South Carolina	Washington
California	Illinois	Maryland	Nebraska	North Dakota	South Dakota	West Virginia
Colorado	Indiana	Massachusetts	Nevada	Ohio	Tennessee	Wisconsin
Connecticut	Iowa	Michigan	New Hampshire	Oklahoma	Texas	Wyoming
Delaware						

Maps provide overviews



Tables link to original sources

Energy Information Administration - State Energy Profiles - State energy data, information, and - Windows Internet Explorer

http://tonto.eia.doe.gov/state/state_energy_profiles.cfm?sid=PA

File Edit View Favorites Tools Help

Google G Go W AutoLink AutoFill Send to Settings

Energy Information Administration - State Energy Pro...

Prices

Petroleum	Pennsylvania	U.S. Avg.	Period
Domestic Crude Oil First Purchase	\$89.41/barrel	\$87.06/barrel	Jan-08
No. 2 Heating Oil, Residential	\$3.059/gal	\$3.14/gal	Jan-08
Regular Motor Gasoline Sold Through Retail Outlets (Excluding Taxes)	\$2.598/gal	\$2.545/gal	Jan-08
State Tax Rate on Motor Gasoline (other taxes may apply)	\$0.312/gal	\$0.215/gal	Jul-07
No. 2 Diesel Fuel Sold Through Retail Outlets (Excluding Taxes)	\$2.812/gal	\$2.798/gal	Jan-08
State Tax Rate on On-Highway Diesel (other taxes may apply)	\$0.381/gal	\$0.2205/gal	Jul-07

Natural Gas	Pennsylvania	U.S. Avg.	Period
Wellhead	NA	\$6.40/thousand cu ft	2006
City Gate	\$9.18/thousand cu ft	\$8.37/thousand cu ft	Jan-08
Residential	\$14.26/thousand cu ft	\$12.12/thousand cu ft	Jan-08

Coal	Pennsylvania	U.S. Avg.	Period
Average Open Market Sales Price	\$37.42/short ton	\$25.16/short ton	2006
Delivered to Electric Power Sector	\$ 1.77/million Btu	\$ 1.77/million Btu	Nov-07

Electricity	Pennsylvania	U.S. Avg.	Period
Residential	10.56 cents/kWh	10.31 cents/kWh	Dec-07
Commercial	8.86 cents/kWh	9.41 cents/kWh	Dec-07
Industrial	6.76 cents/kWh	6.25 cents/kWh	Dec-07

➔ See more Price data for all States

Reserves & Supply

Reserves	Pennsylvania	Share of U.S.	Period
----------	--------------	---------------	--------

Internet 100%

Data Directories organize data

State Data Directory STATE ENERGY PROFILES

Prices | Reserves & Supply | Dist. & Mktg. | Consumption & Sales | Environment

State Data for Prices

Total Energy	
State Energy Consumption, Price, and Expenditure Estimates (SEDS)	Annual
Energy Price Estimates by Source	Annual
Residential Sector Energy Price Estimates by Source	Annual
Commercial Sector Energy Price Estimates by Source	Annual
Industrial Sector Energy Price Estimates by Source	Annual
Transportation Sector Energy Price Estimates by Source	Annual
Electric Power Sector Energy Price Estimates	Annual
Petroleum	
Weekly Retail Gasoline & Diesel Prices	Weekly, Monthly, Annual
Weekly Heating Oil and Propane Prices	Weekly, Monthly
Refiner Petroleum Product Prices by Sales Type	Monthly, Annual
Refiner Gasoline Prices by Grade and Sales Type	Monthly, Annual
Gasoline Prices by Formulation, Grade, Sales Type	Monthly, Annual
No. 2 Distillate Prices by Sales Type	Monthly, Annual
Propane (Consumer Grade) Prices by Sales Type	Monthly, Annual
Residual Fuel Oil Prices by Sales Type	Monthly, Annual
Domestic Crude Oil First Purchase Prices by Area	Monthly, Annual
Natural Gas	
Wellhead Price	Annual

Emissions data come from voluntary reporting and power plant surveys

- Carbon Dioxide Emissions
 - By fuel and by energy sector
 - Includes methodology
- Electric Power Plant Emissions
 - Carbon dioxide
 - Sulfur dioxide
 - Nitrogen oxide

New in State Energy Profiles

Spring 2008

- Total Energy Consumption data for 2005
- Total Energy Production
 - Time series from 1960 – 2005 (most series)
 - In physical units and Btu
- Updates page:
<http://tonto.eia.doe.gov/state/updates.cfm>

Fall 2008

- State rankings of selected data series
- Addition of biomass potential data to energy maps

A Three-Part Presentation

Part I. EIA's State data collection

Part II. Applications of State data

Part III. State data wish list



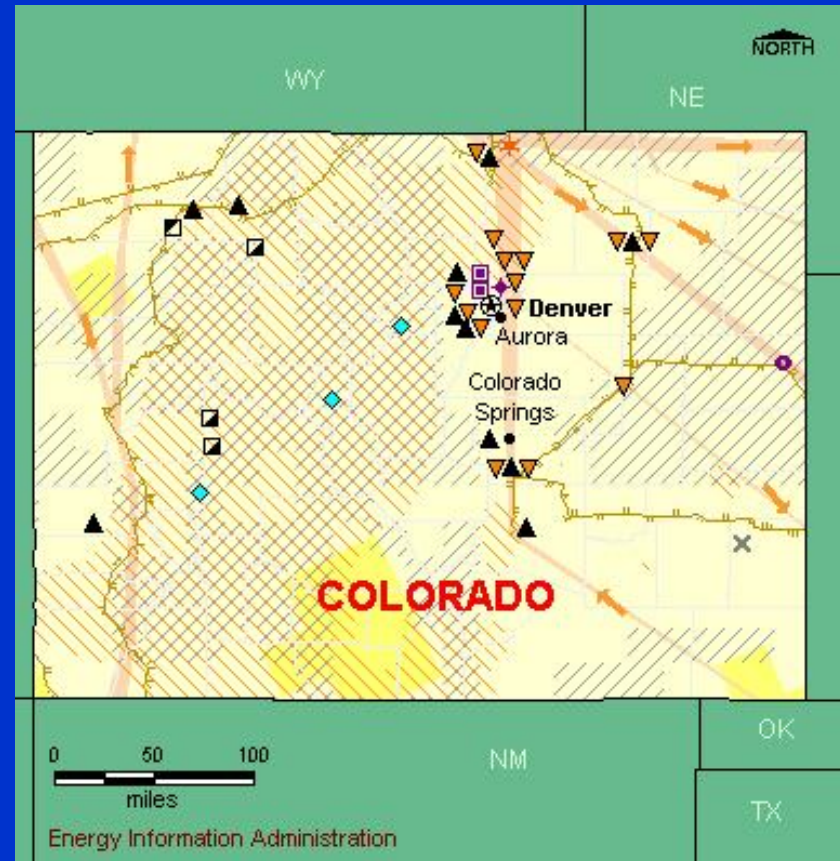
Planning for emergencies

- Louisiana's offshore petroleum industry was dealt a serious blow in 2005 when hurricanes Katrina and Rita damaged offshore oil platforms and curbed production for several months.



Developing policy options

- Colorado's high Rocky Mountain ridges offer wind power potential, and geologic activity provides potential for geothermal power development. Major rivers offer hydro-electric power resources.



A Three-Part Presentation

Part I. EIA's State data collection

Part II. Applications of State data

Part III. State data wish list



State data wish list

- Detailed end-use data for each consuming sector in every State
 - Residential and commercial building characteristics, such as type of furnace
 - Appliance usage, including space heating, cooling, and lighting
 - Demographic characteristics of households, such as income



State data wish list

- Local energy statistics (e.g., metropolitan areas)
- State short-term and long-term energy outlooks (and robust State energy models)



State data wish list

- Consumption of renewable energy other than at power plants
 - Solar roofs
 - Windmills
 - Geothermal heat pumps



Thank you

For more information about EIA's State energy data, please contact me --

Barbara Fichman

Energy Profiles Program Manager

Barbara.Fichman@eia.doe.gov

202-586-5737