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

EIA's State Data

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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.

FUEL
E
F
WALLET
THE CHRISTIAN SCIENCE MONITOR
Bennett

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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.

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A Three-Part Presentation

Part I. EIA's State data collection

Part II. Applications of State data

Part III. State data wish list

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EIA's data come from a large collection of surveys

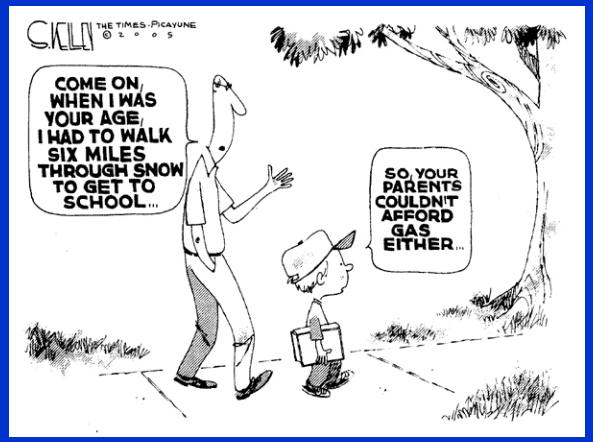
Energy Industry

("supplier surveys")

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

Energy Consumers

- Households
- Commercial Bldgs
- Manufacturers



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It's easy to find EIA's State data

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Start with the gateway page

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Maps provide overviews

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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

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

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Data Directories organize data

State Data Directory STATE ENERGY PROFILES

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

Select a State

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

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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

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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

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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.

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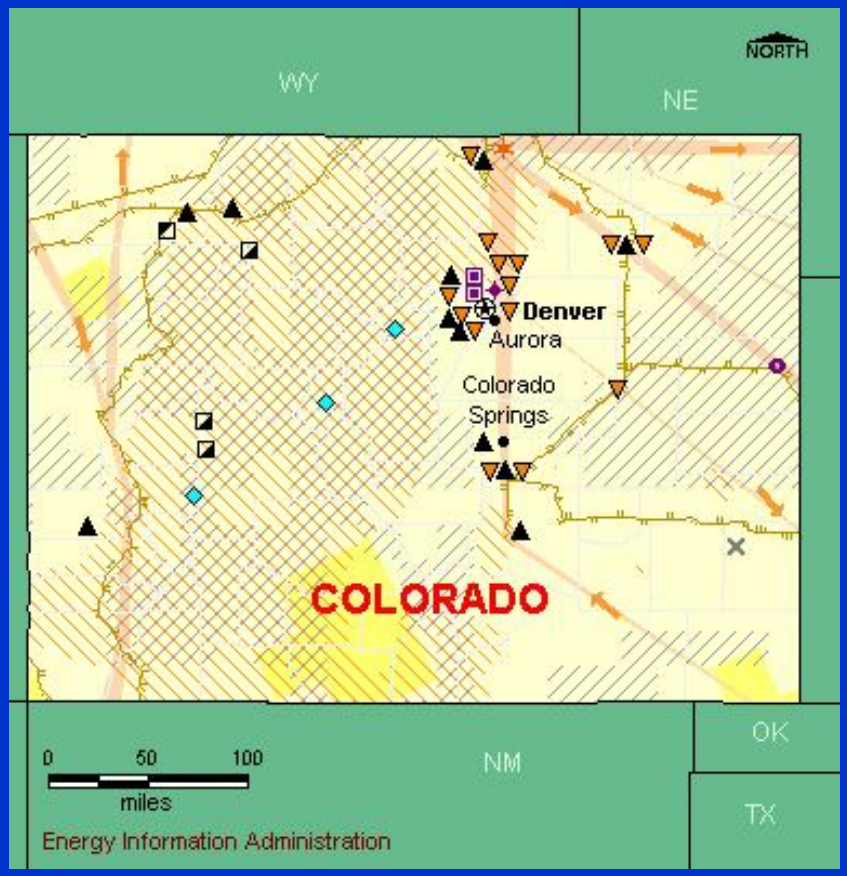
Developing policy options

- 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.



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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

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State data wish list

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

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State data wish list

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

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Thank you

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

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