#### EIA Short-Term Energy and Winter Fuels Outlook















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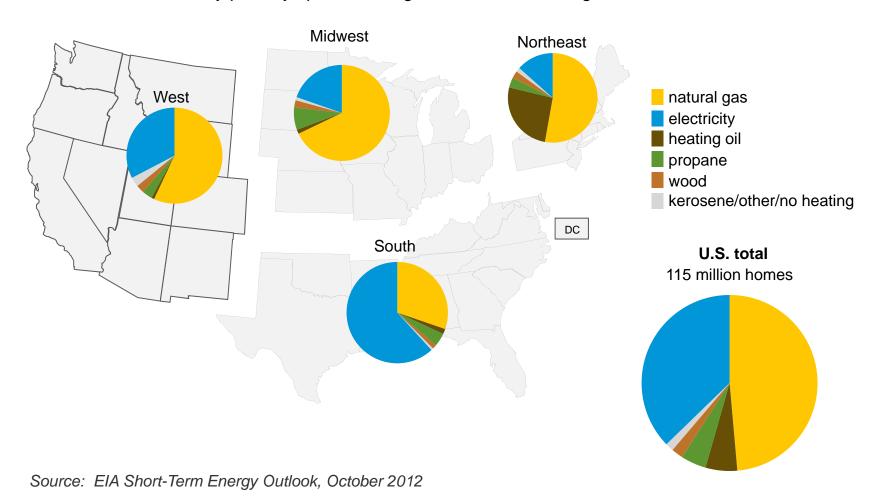
National Association of State Energy Officials October 10, 2012 / Washington, DC

by

Adam Sieminski, Administrator

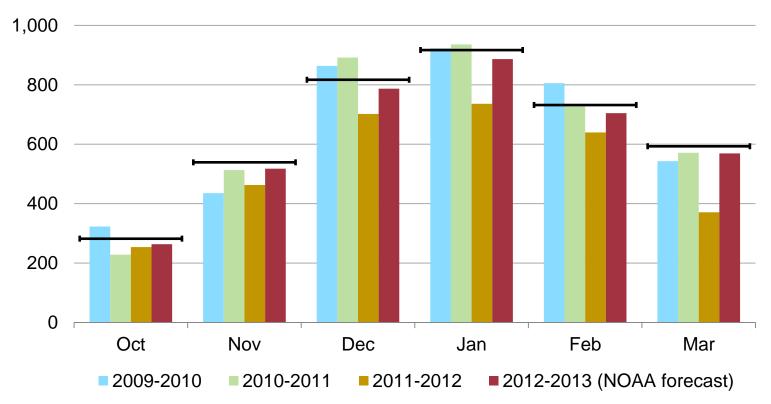
#### Heating fuel market shares vary regionally

Number of homes by primary space heating fuel and Census Region, winter 2012-13



# The U.S. winter 2012-13 heating season forecast is about 2% warmer than the 30-year average, but 18% colder than last winter

U.S. current population-weighted heating degree-days



Note: Horizontal bars indicate monthly average degree days over the period 1971-2000.

Source: EIA calculations based on NOAA state history and forecasts (August 15, 2012) weighted by same-year populations.

# Expenditures are expected to increase this winter (October 1– March 31) for all fossil fuels

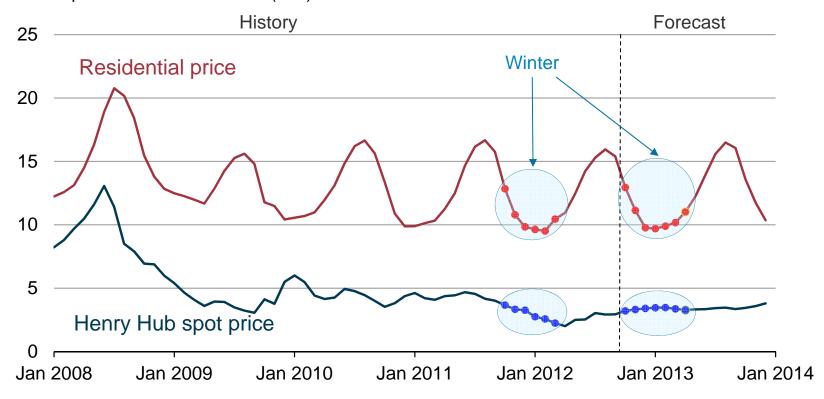
#### Percent change in fuel bills from last winter (forecast)

Fuel bill	Base case forecast	If 10% warmer than forecast	If 10% colder than forecast
Heating oil	19	7	32
Natural gas	15	3	28
Propane *	13	-	-
Electricity	5	2	11

<sup>\*</sup> Propane expenditures are a volume-weighted average of the Northeast and Midwest regions. All others are U.S. volume-weighted averages. Propane prices in warm and cold cases are not available.

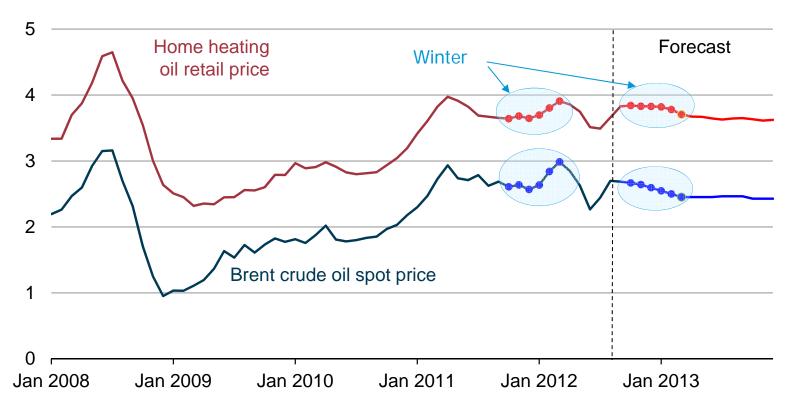
# EIA expects residential natural gas prices to closely follow last winter's prices

dollars per thousand cubic feet (mcf)



## EIA expects residential heating oil prices to average 2% higher this winter than last

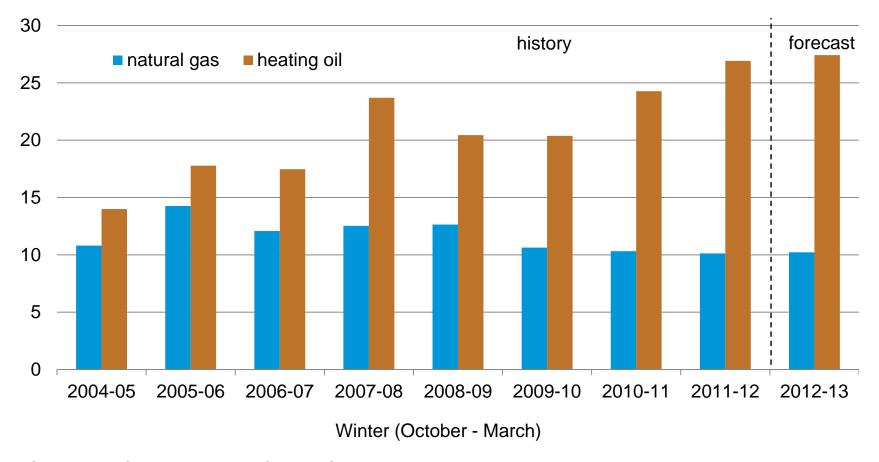
#### dollars per gallon



Home heating oil retail price includes taxes.

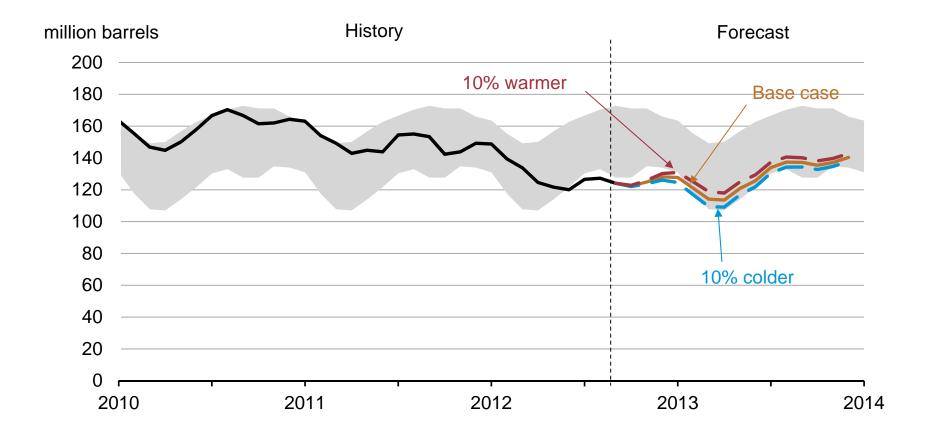
#### Heating oil remains much more expensive than natural gas

U.S. average residential winter heating fuel prices dollars per million Btu



# Recent changes in the heating oil market

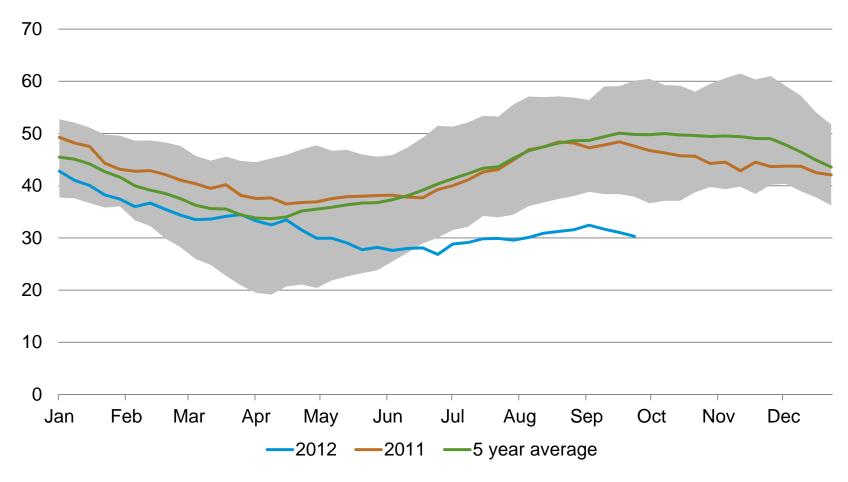
#### U.S. distillate stocks are at the low end of the normal range



Note: Normal range (colored band) represents the range between the minimum to maximum from Jan. 2007 to Dec. 2011.

# Distillate inventories in the Northeast have been below their normal range since mid-summer

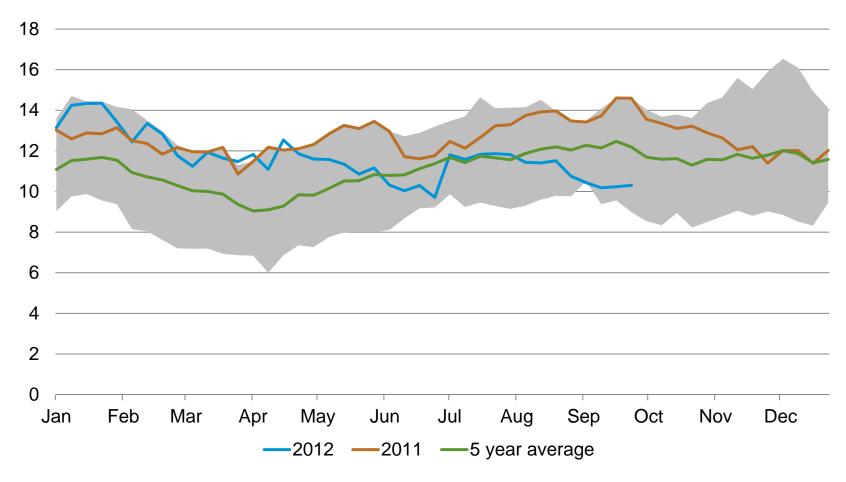
U.S. Northeast Total Distillate Inventories million barrels



Source: EIA Weekly Petroleum Status Report

#### Ultra-low sulfur diesel (ULSD) stocks are also low

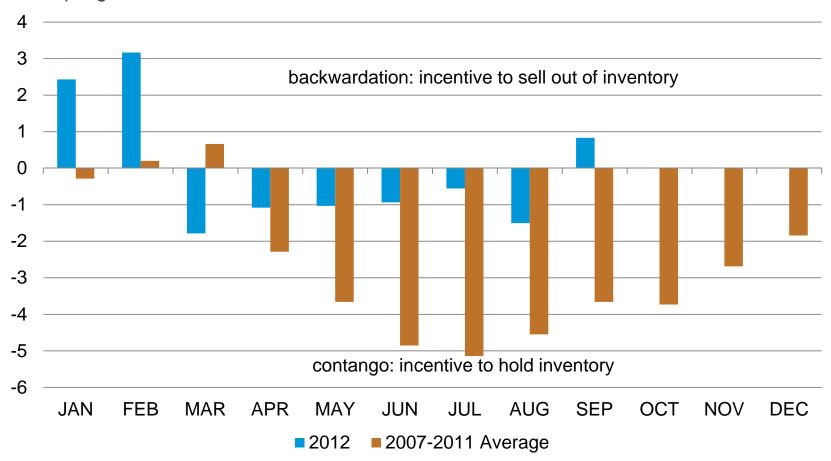
U.S. Northeast ULSD inventories million barrels



Source: EIA Weekly Petroleum Status Report

#### Futures market indicates a reduced incentive to hold inventories

Time spreads for NYMEX heating oil futures contracts cents per gallon



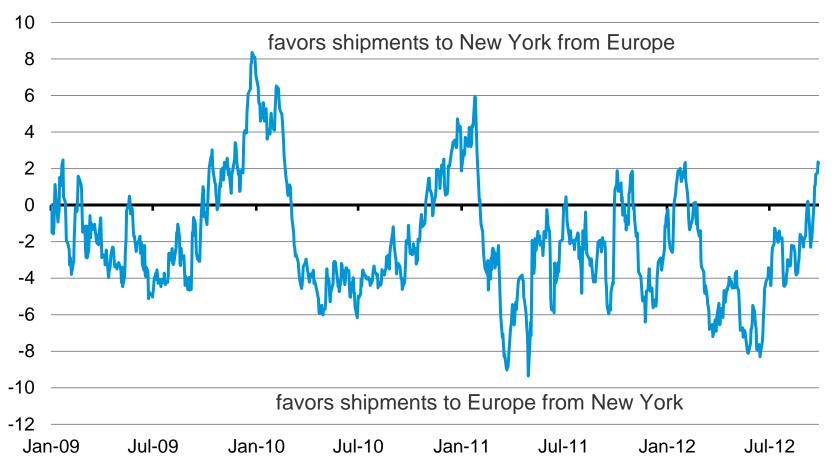
Note: Data are the average monthly first - third contract

Source: Bloomberg LP



#### Arbitrage between New York Harbor and Europe has closed

Transatlantic Distillate Arbitrage: New York Harbor - Northwest Europe cents per gallon (five year average)



Source: Bloomberg LP

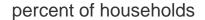
### Other factors that could lessen tightness in Northeastern distillate markets headed into the winter

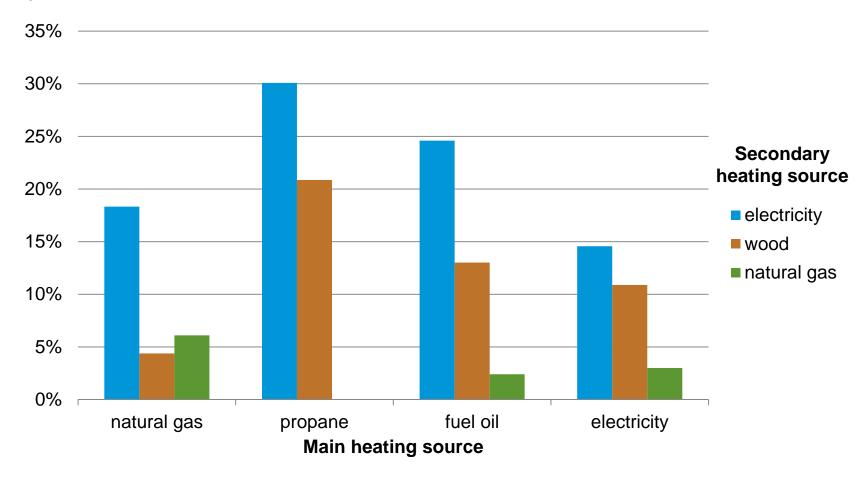
- Delta Air Line's Trainer Refinery near Philadelphia is slated to restart in early October after being idle for the last year
- Colonial Pipeline's completion of a 55,000 bbl/d capacity expansion of a distillate pipeline from Houston, Texas and the 60,000 bbl/d expansion from a pipeline from Greensboro, North Carolina
- Additional production could come online from other Northeast refineries to take advantage of the strength in the distillate market

#### Changes in Northeast heating fuel consumption

- The Northeastern heating oil market is declining, though it remains the primary fuel in some areas
- Connecticut announced a plan to expand natural gas distribution networks
- Consumers are also supplementing liquid heating fuels with wood and electricity –wood pellet use has been growing in New England
- Production from shale gas in Pennsylvania has increased access to natural gas in Northeastern markets

# Secondary heating is most prevalent for homes using heating oil or Propane/LPG as their main heating source





Source: EIA Residential Energy Consumption Data, 2009

# What is the state of energy?

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New energy maps with over 30 selectable layers

#### Visualize

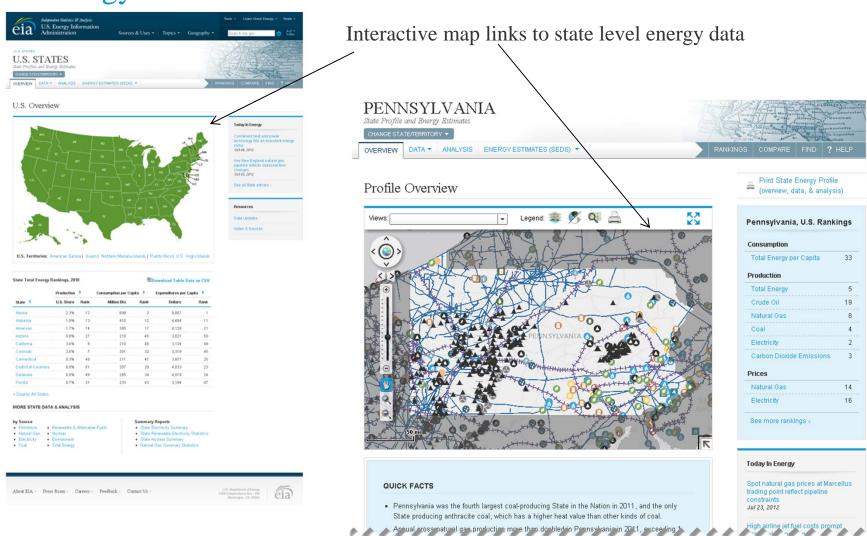
Dynamic charts and graphs

#### **Analyze**

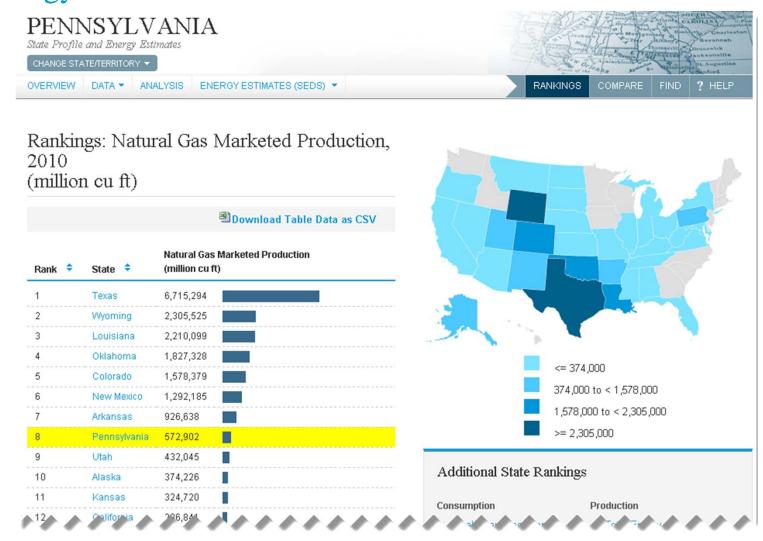
Key facts and in-depth analysis



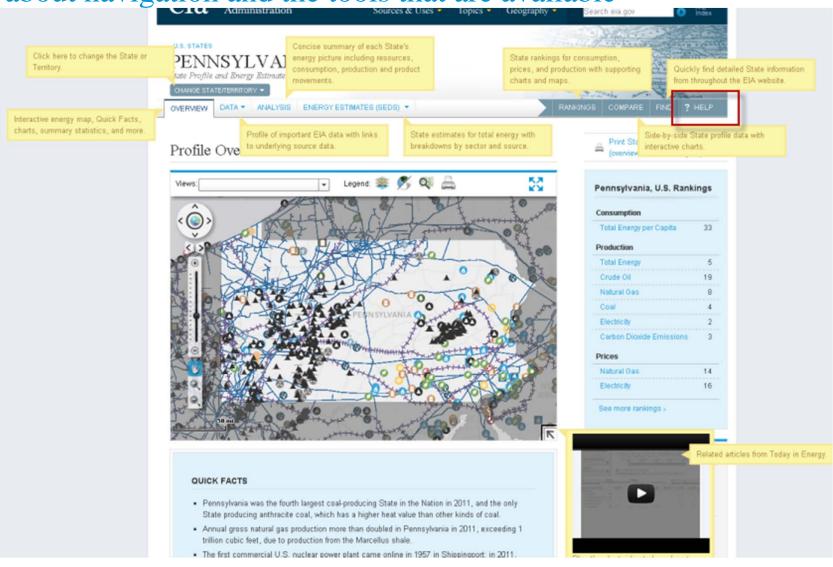
# EIA updates state level data sets with mapping features and energy infrastructure datasets



#### States pages include EIA datasets and analysis on all fuels and energy infrastructure included in EIA data collection



"Help" feature an instructional video as well as information about navigation and the tools that are available



#### For more information

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

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

Annual Energy Outlook | www.eia.gov/aeo

International Energy Outlook | www.eia.gov/ieo

Monthly Energy Review | www.eia.gov/mer