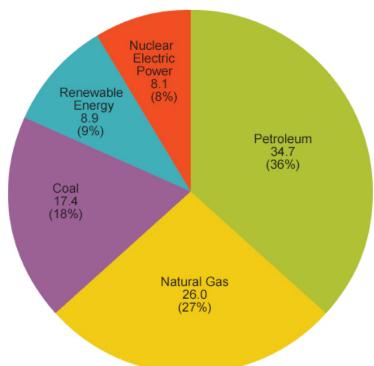


## Petroleum is the largest source of primary energy used in the United States.

Primary energy use by source, 2012 quadrillion Btu and percent of total<sup>1</sup>



Total U.S. = 95.1 quadrillion Btu

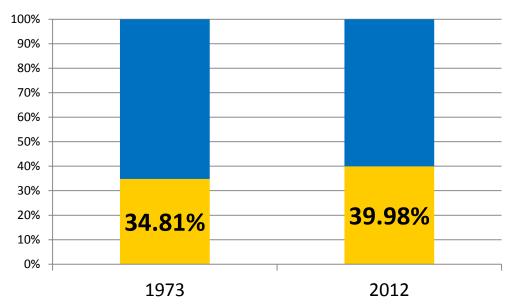
<sup>1</sup>Does not add to 100 due to independent rounding. Source: U.S. Energy Information Administration, *Monthly Energy Review*, Table 1.3 (April 2013), preliminary 2012 data.

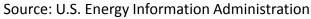
## The U.S. imports more oil now than in 1973, both in absolute and relative terms.

# 25 20 15 10 5 0 1973 2012

**Petroleum Imports (quadrillion Btu)** 

Net Imports of Petroleum as a Share of Total U.S. Demand for Petroleum





#### Net oil imports (imports minus exports) hit a high of over 60% in 2005. Oil consumption also peaked in 2005. Domestic oil production has increased since 2008.

eia

U.S. petroleum and other liquids consumption, production, and net imports (1950-2012) million barrels per day

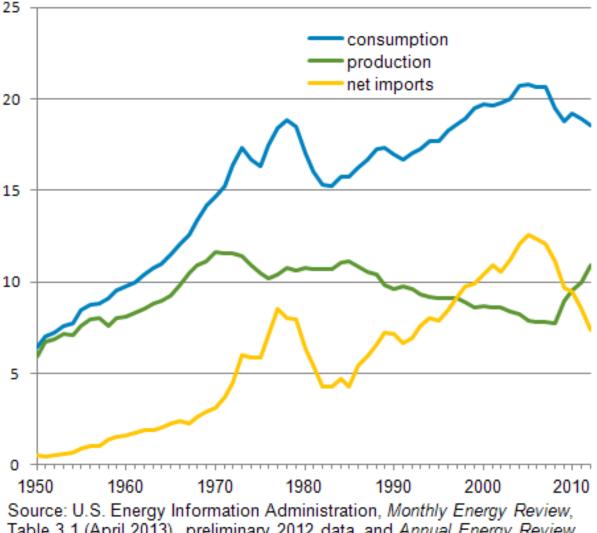
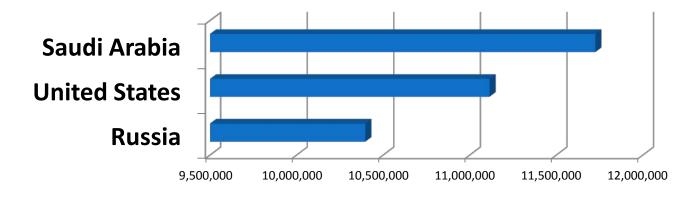


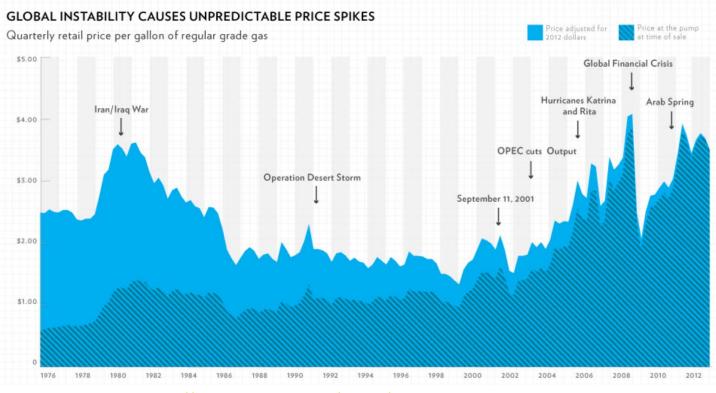
Table 3.1 (April 2013), preliminary 2012 data, and Annual Energy Review, Table 5.1b (August 2012).

Because of fracking, the U.S. is now the second largest producer of oil in the world.



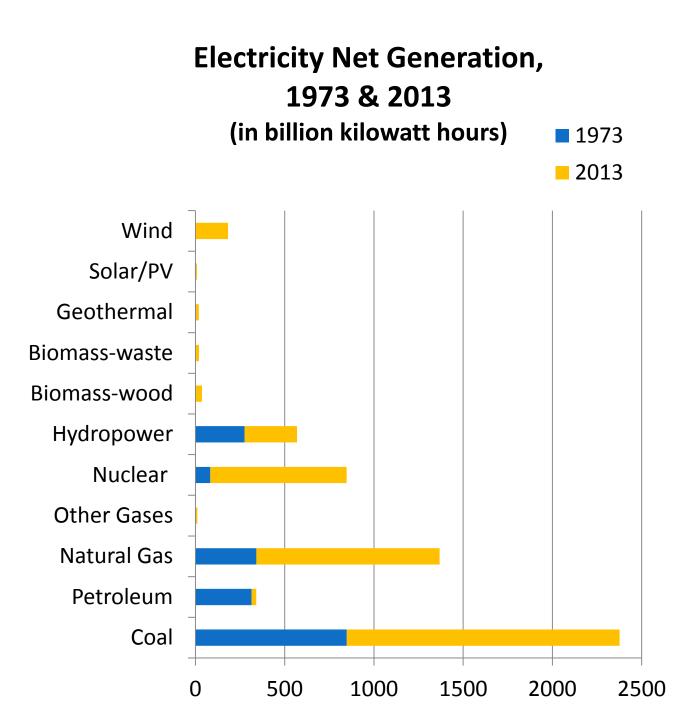
Source: U.S. Energy Information Administration

## Nevertheless, the U.S. remains subject to world oil prices, which are extremely volatile and sensitive to geopolitical events we have no control over.



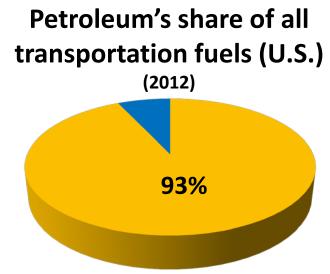
Source: White House <a href="http://www.whitehouse.gov/energy/gasprices">http://www.whitehouse.gov/energy/gasprices</a>

## Petroleum represents a much smaller share of electricity generation



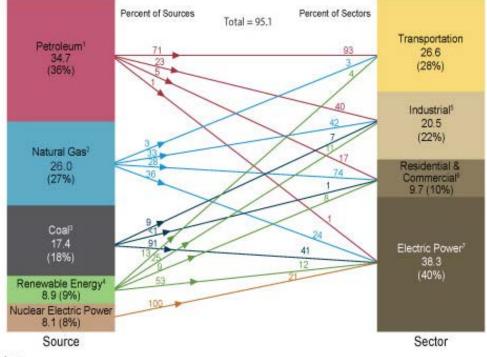
Source: U.S. Energy Information Administration

But the U.S. transportation sector is still very dependent on petroleum.



Source: U.S. Energy Information Administration

Primary energy consumption by source and sector, 2012 quadrillion BTU



Endnotes:

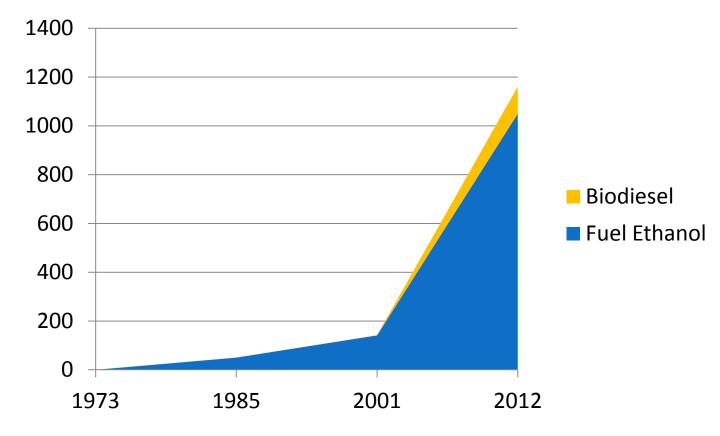
<sup>1</sup>Does not include biofuels that have been blended with petroleum—biofuels are included in "Renewable Energy." <sup>4</sup>Conventional hydroelectric power, geothermal, solar/PV, wind, and biomass.

\* Sum of components may not equal total due to independent rounding. Source: U.S. Energy Information Administration, *Monthly Energy Review* (April 2013), Tables 1.3, 2.1-2.5, preliminary 2012 data.

#### The Rise of Biofuels

#### Renewable biofuels are beginning to replace petroleum. Renewable ethanol displaces about 9.7% of U.S. gasoline (by volume in 2012).

**Biofuel Use in Transportation (trillion Btu)** 

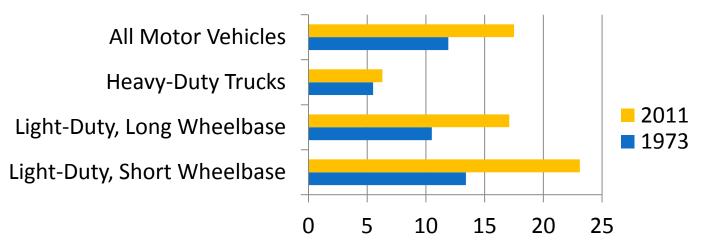


Source: U.S. Energy Information Administration

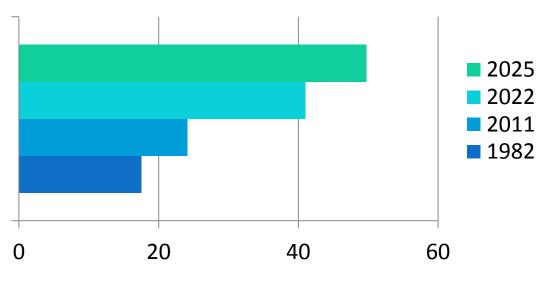
#### **Increasing Energy Efficiency**

#### More importantly, vehicles have become much more energy efficient, thanks to federal standards

Motor Vehicle Fuel Economy (mpg)



CAFE Fuel Standards Miles Per Gallon (MPG) Requirements

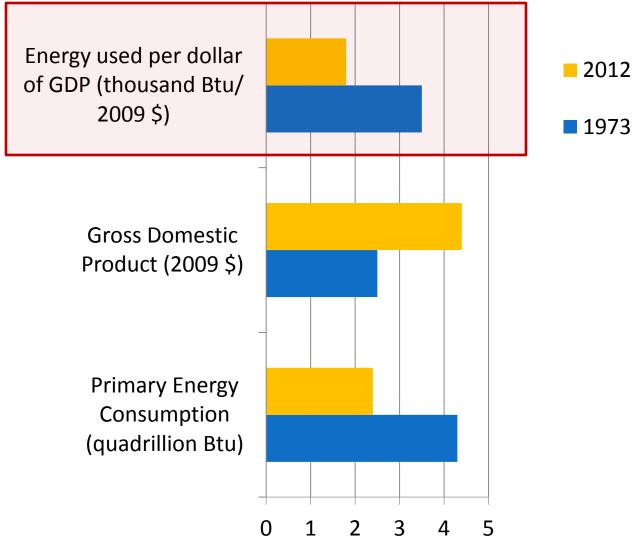


Sources: U.S. Energy Information Administration National Highway Traffic Safety Administration

#### Increasing Energy Efficiency

## In fact, the entire economy has become more energy efficient.

#### **GDP Rises While Energy Consumption Falls**



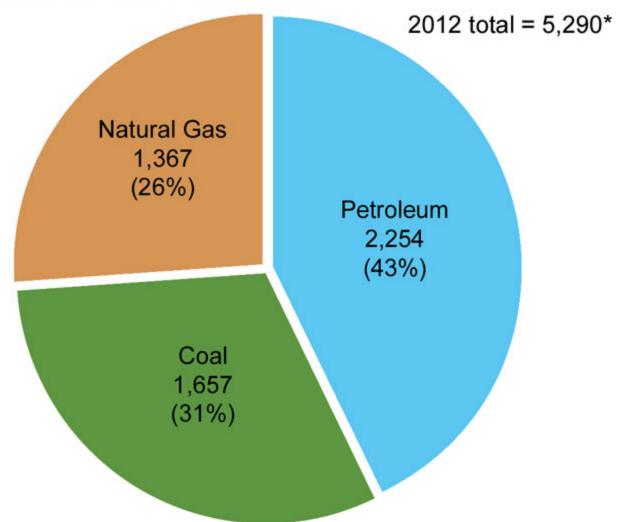
Source: U.S. Energy Information Administration

#### Oil: Principal Source of CO2 Emissions

#### Petroleum is a leading source of CO2 emissions.

## U.S. energy-related carbon dioxide emissions by major fuel, 2012

million metric tons carbon dioxide

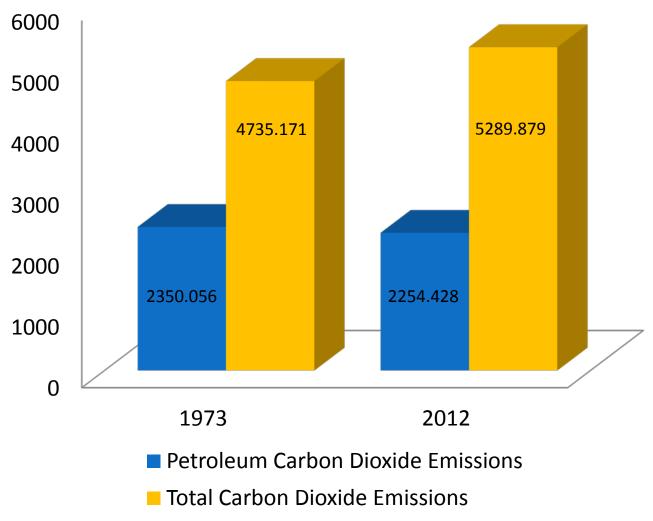


\*Includes small amounts of CO<sub>2</sub> from non-biogenic municipal solid waste and geothermal energy (0.2% of total). Note: Totals may not equal sum of components due to independent rounding. Source: U.S. Energy Information Administration, *Monthly Energy Review*, Table 12.1 (May 2013), preliminary 2012 data.

#### Oil: Principal Source of CO2 Emissions

## Petroleum's share of CO2 emissions hasn't changed much since 1973.

#### U.S. Carbon dioxide emissions from energy consumption (Million Metric Tons of Carbon Dioxide)



Source: U.S. Energy Information Administration



#### Produced by the Environmental and Energy Study Institute, for the 40<sup>th</sup> Anniversary of the OPEC Oil Embargo.