



Available. Reliable. Affordable.

Wichita Area Economic Outlook
Fall 2012

**\$474
Billion**



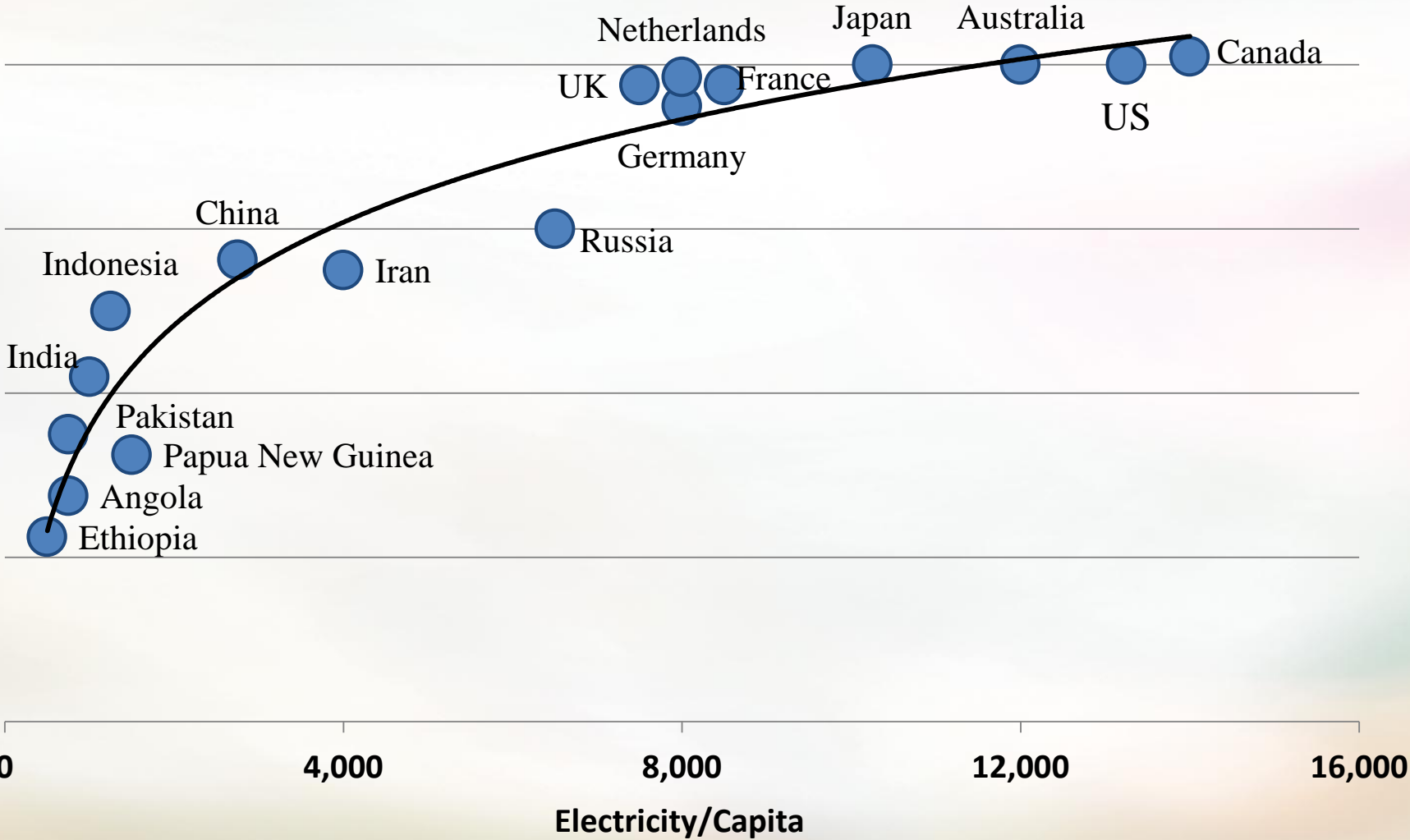
**\$624
Billion**







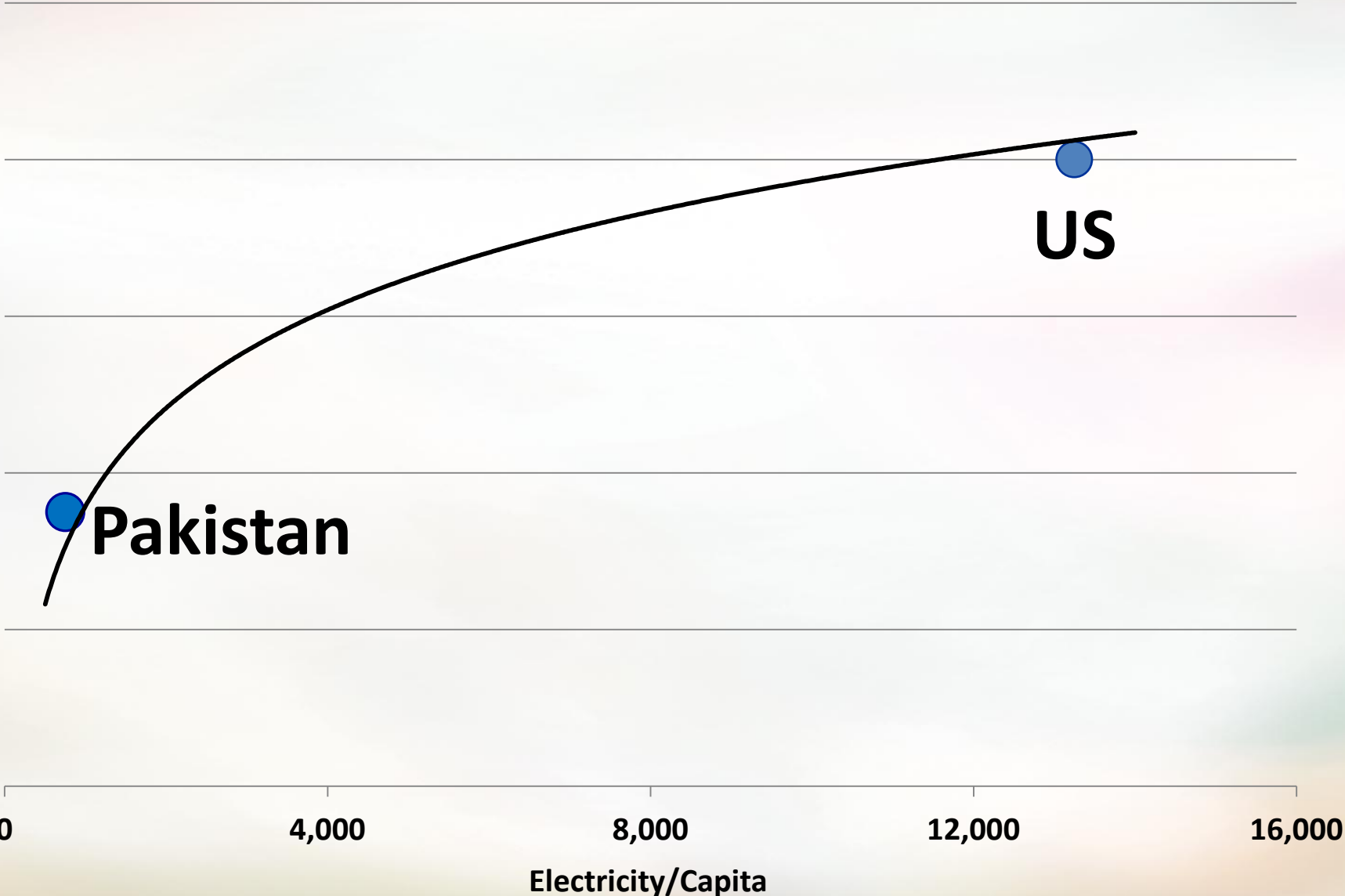
Electricity and a Higher Quality of Life



Source: United Nations Development Program



Electricity and a Higher Quality of Life

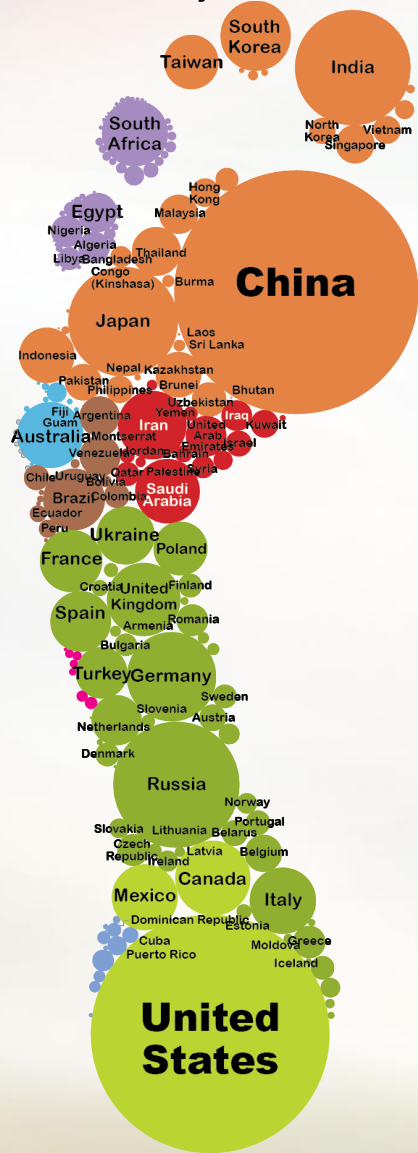


Source: United Nations Development Program



Total Carbon Emissions

by Nation



Total Carbon Emissions

by Nation



Real GDP Per Capita

\$49,000

\$8,500

China

United States

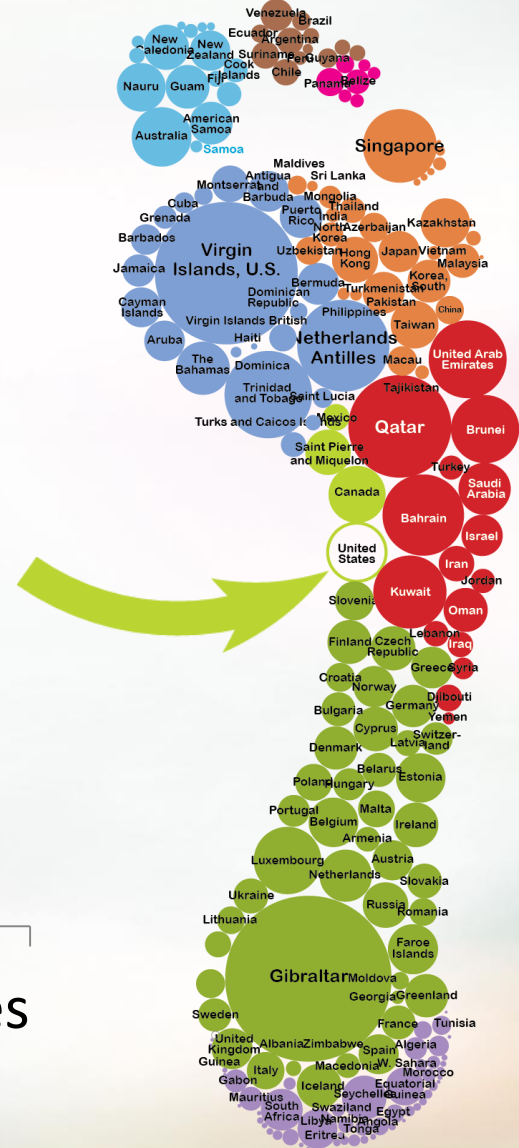
Total Carbon Emissions

by Nation



Total Carbon Emissions

per Capita



Real GDP Per Capita
\$49,000

\$8,500

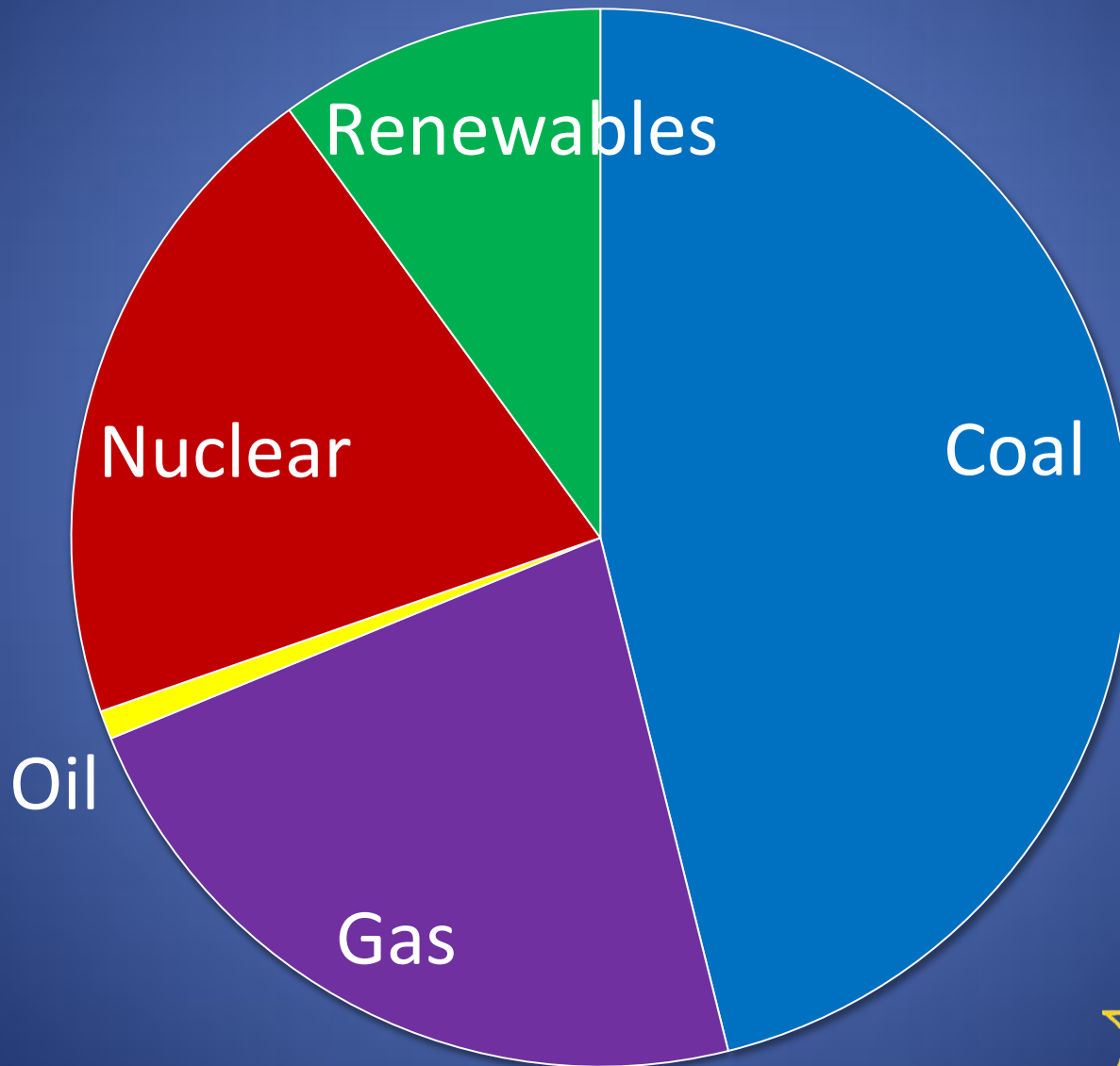
China

United States

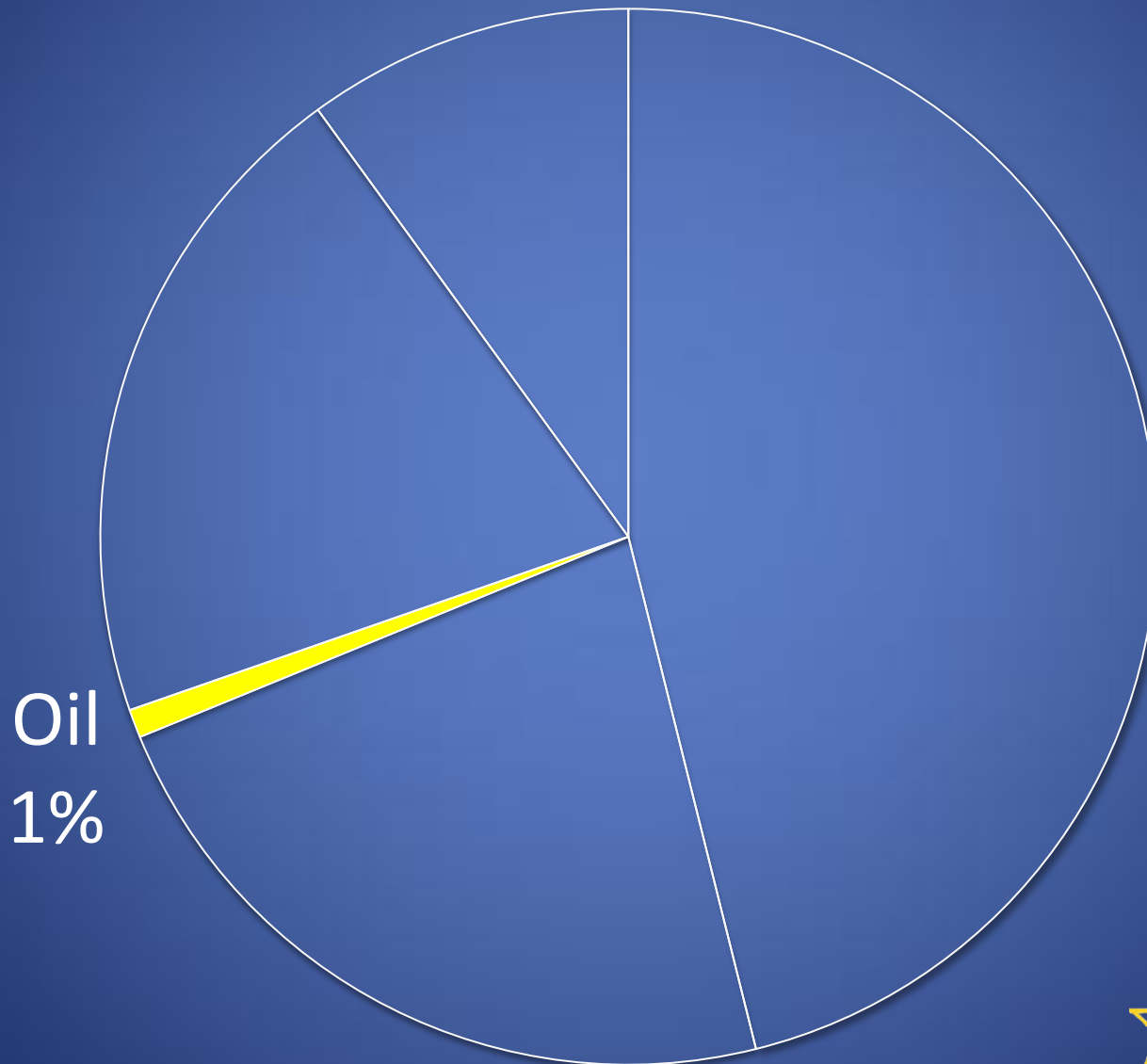




U.S. Fuel Mix

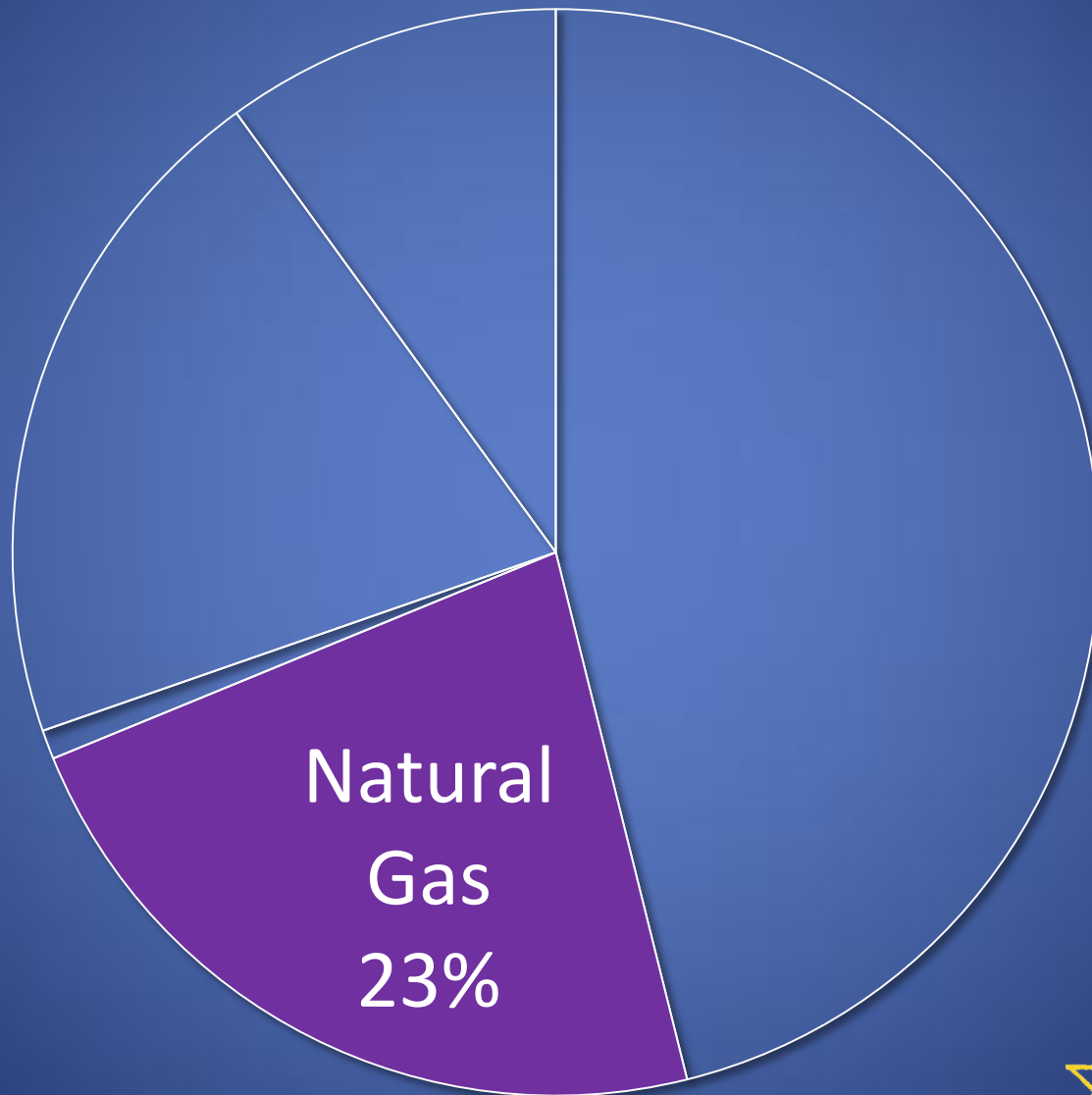


U.S. Fuel Mix



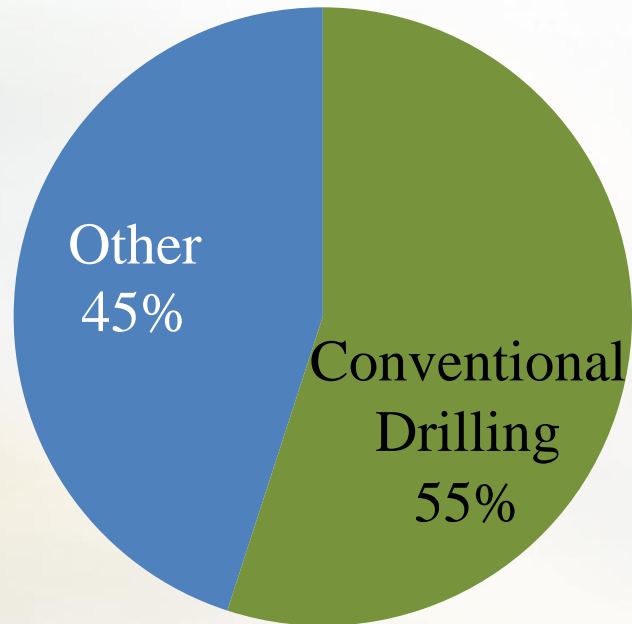
Source: U.S. Energy Information Administration, 2010 data

U.S. Fuel Mix

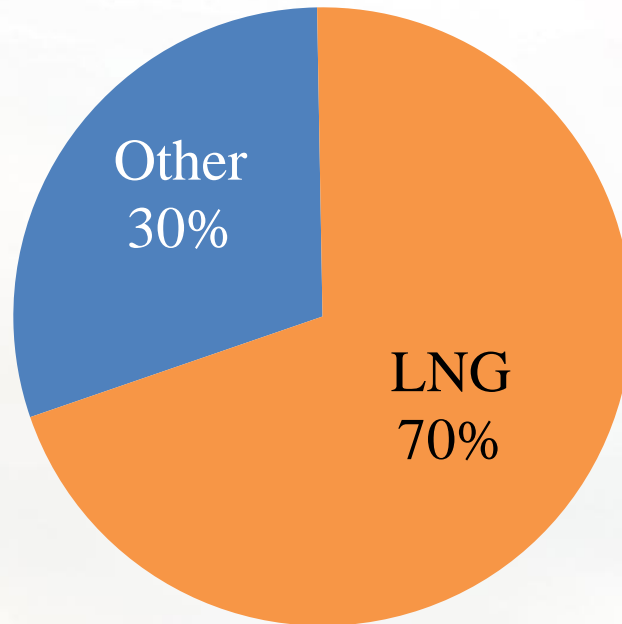


Forecasted Natural Gas Production in 2015

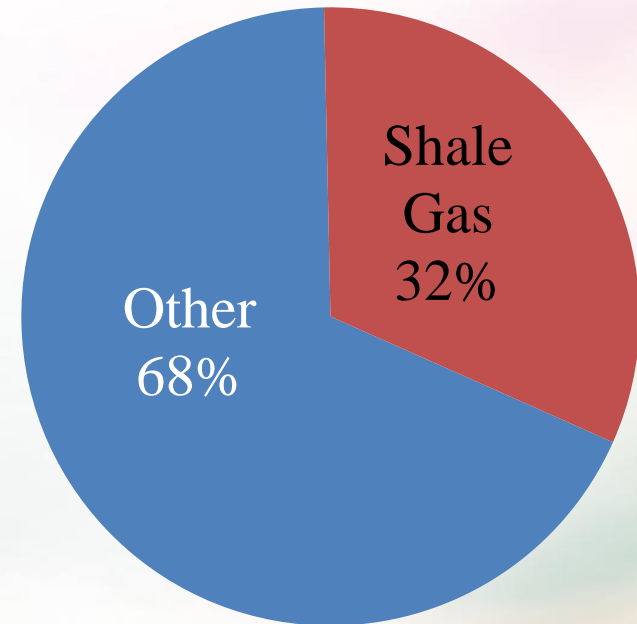
2001



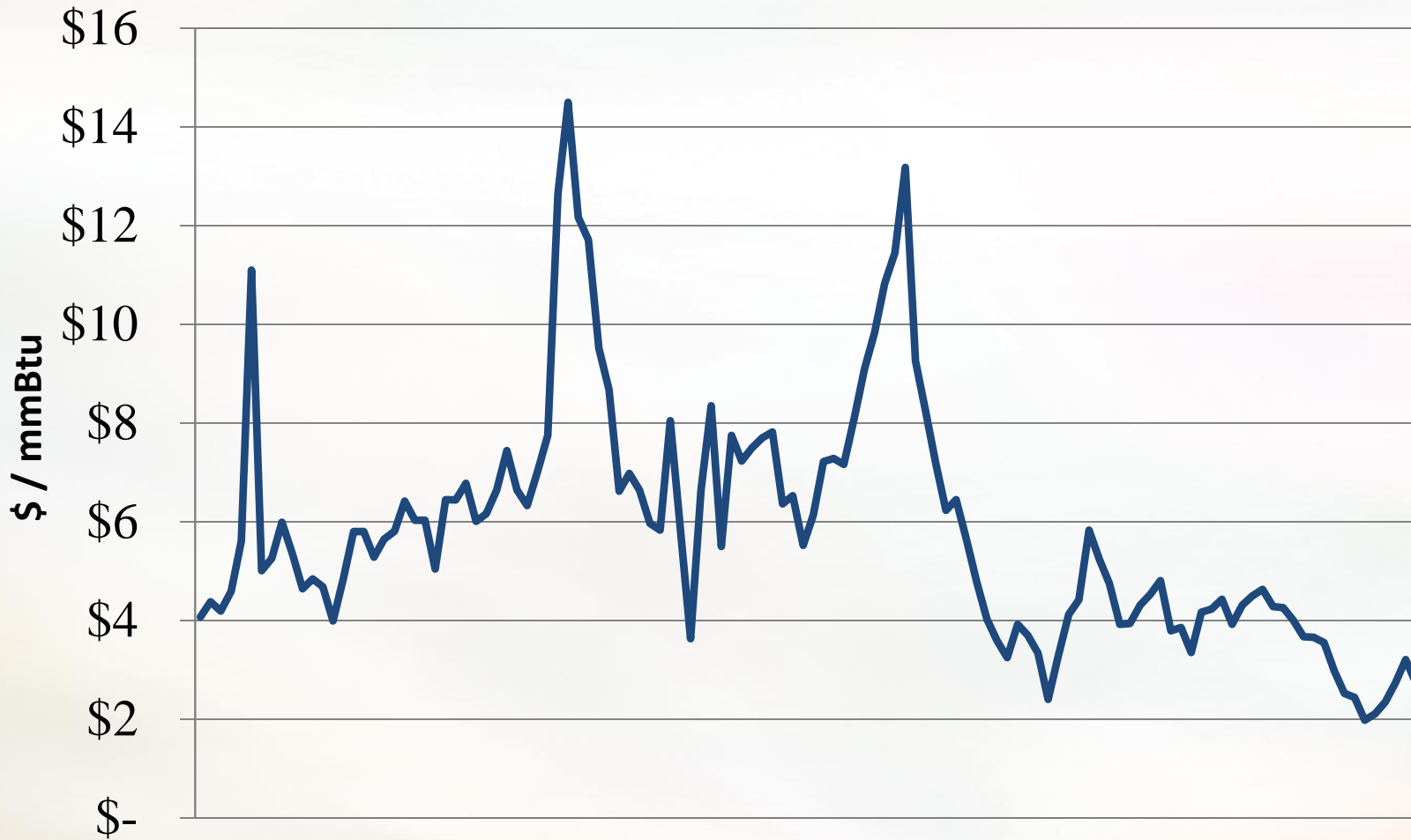
2005



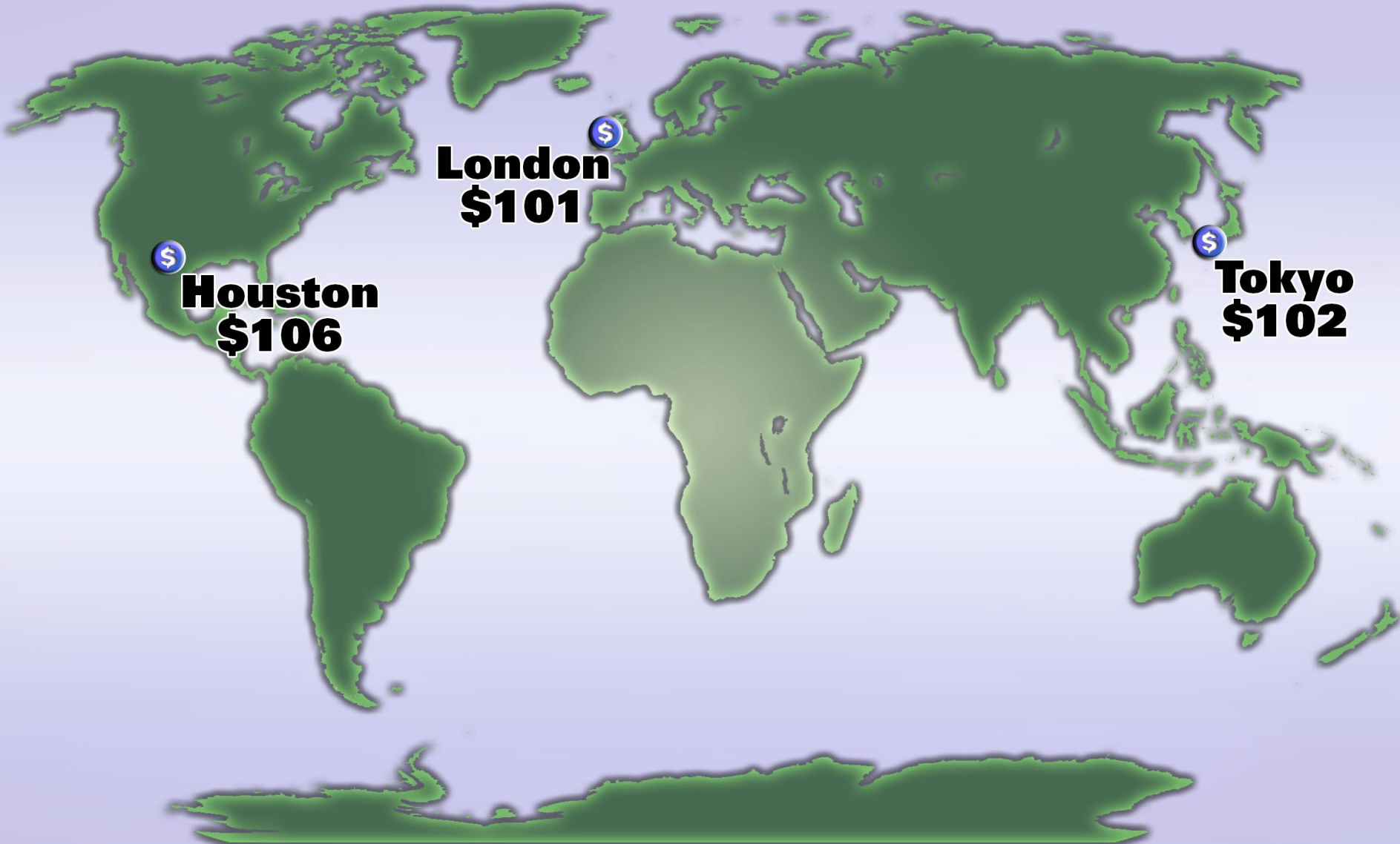
2012



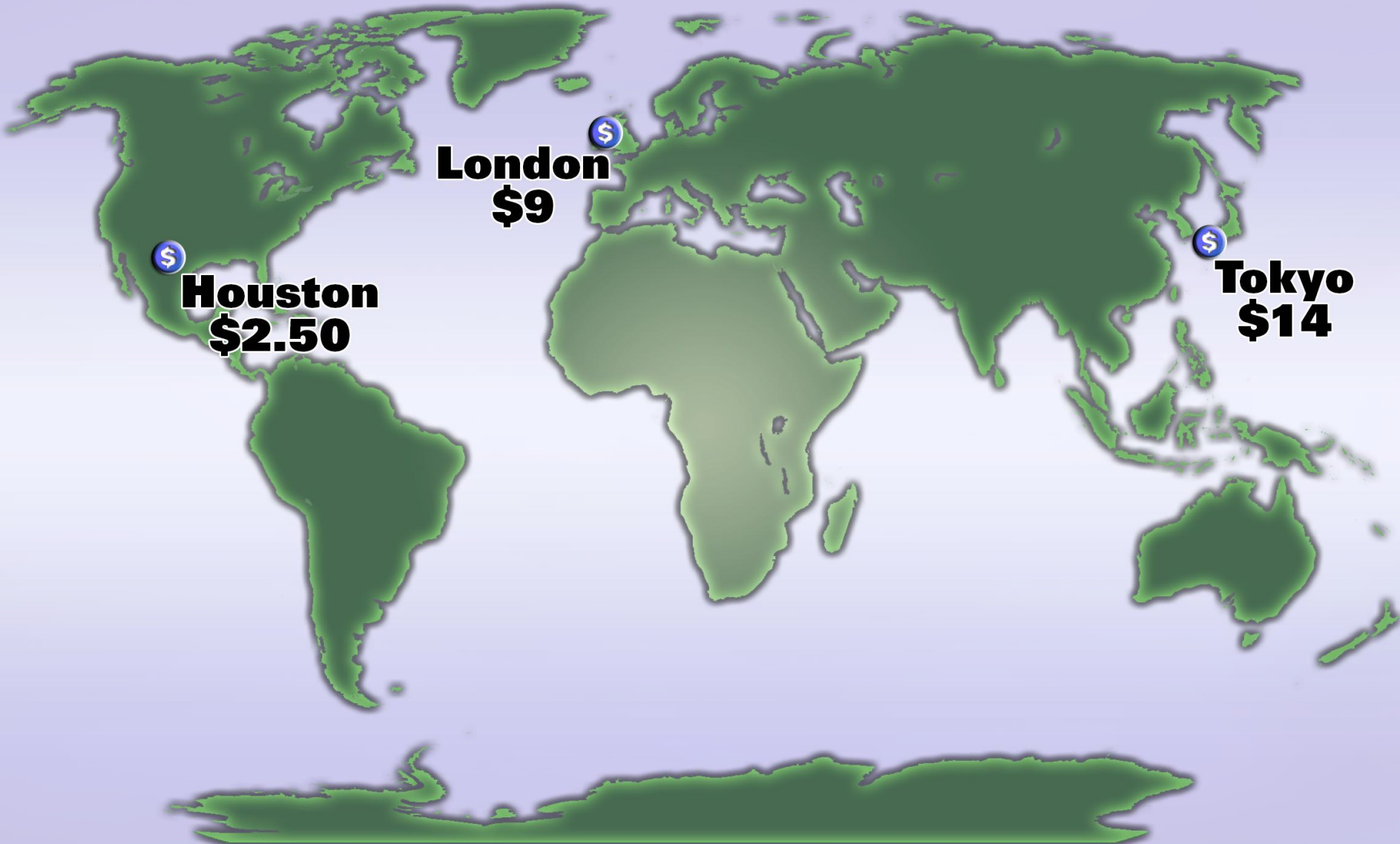
10-Years of Natural Gas Volatility



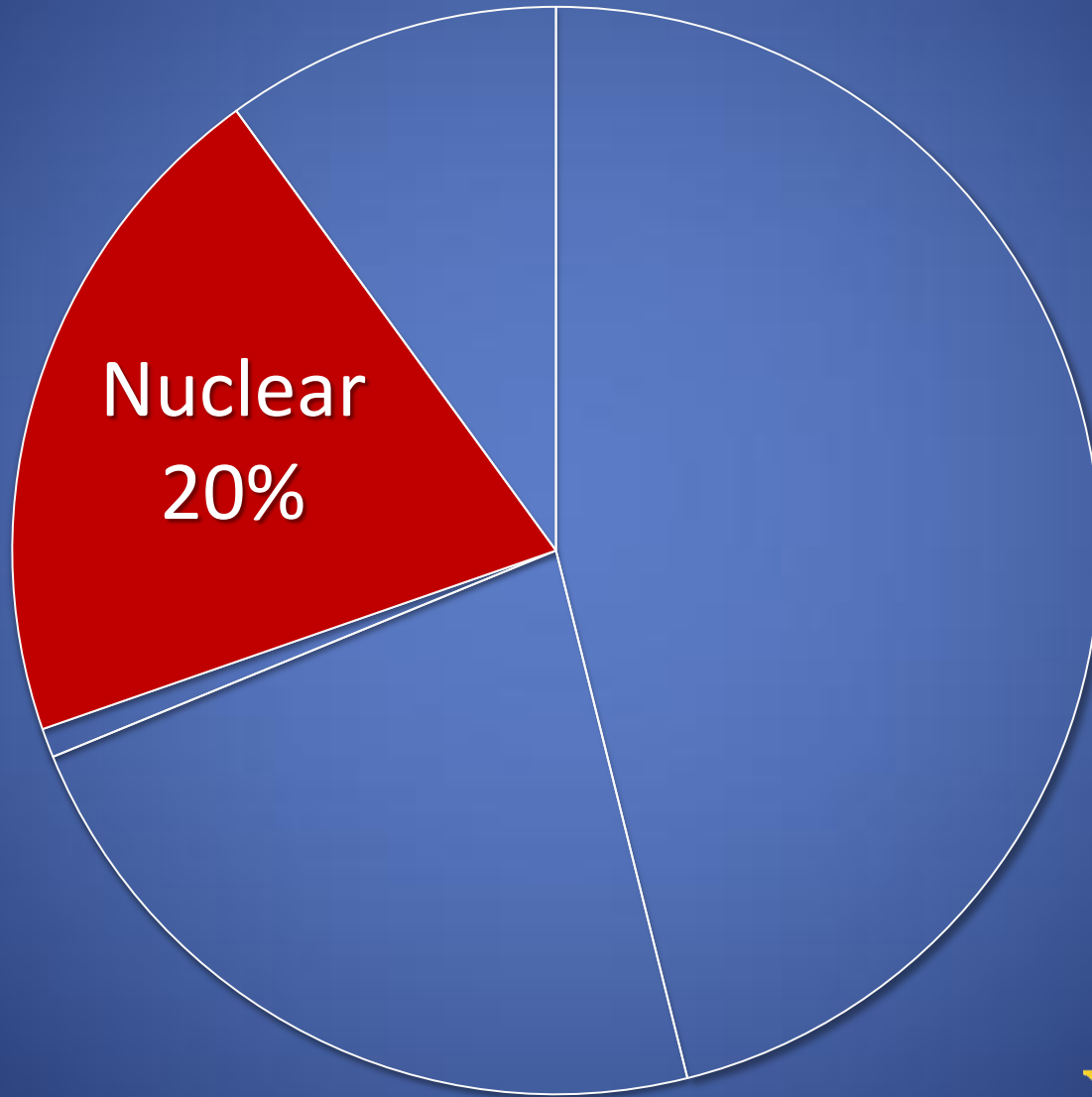
Crude Oil Prices



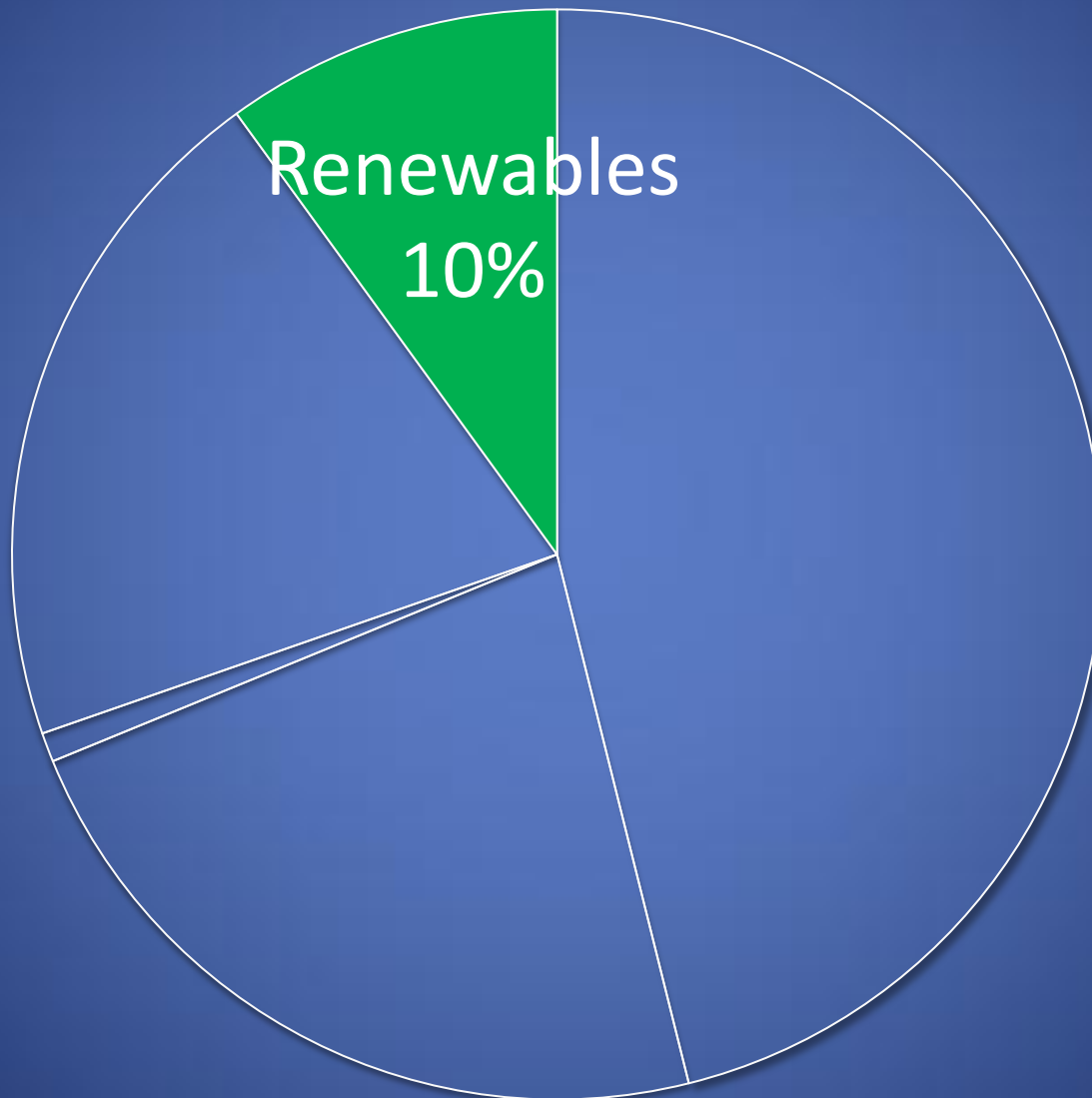
Natural Gas Prices



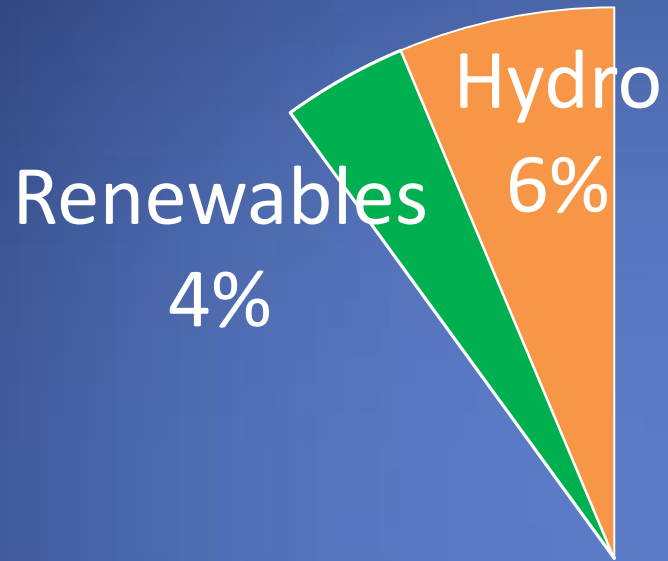
U.S. Fuel Mix



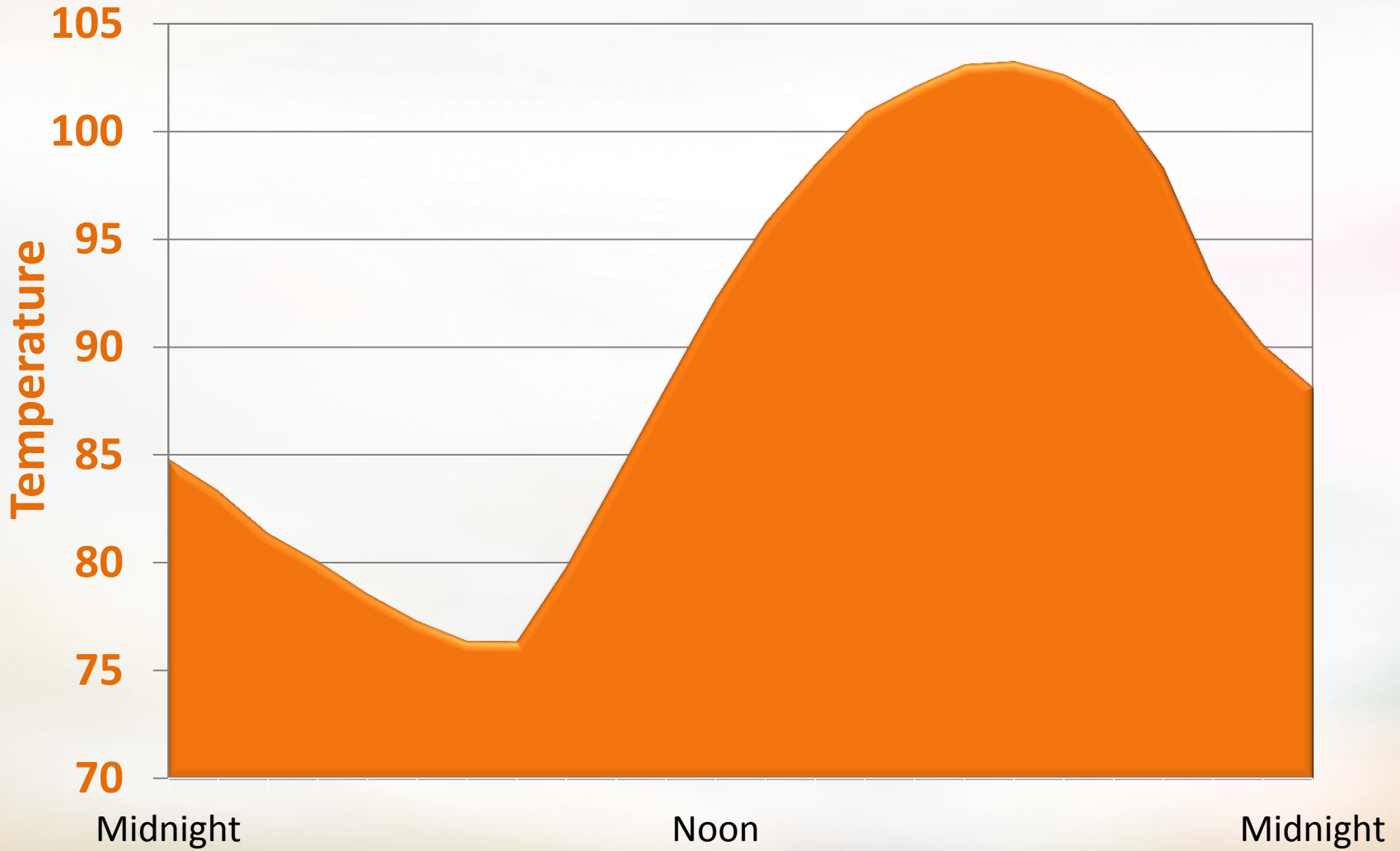
U.S. Fuel Mix



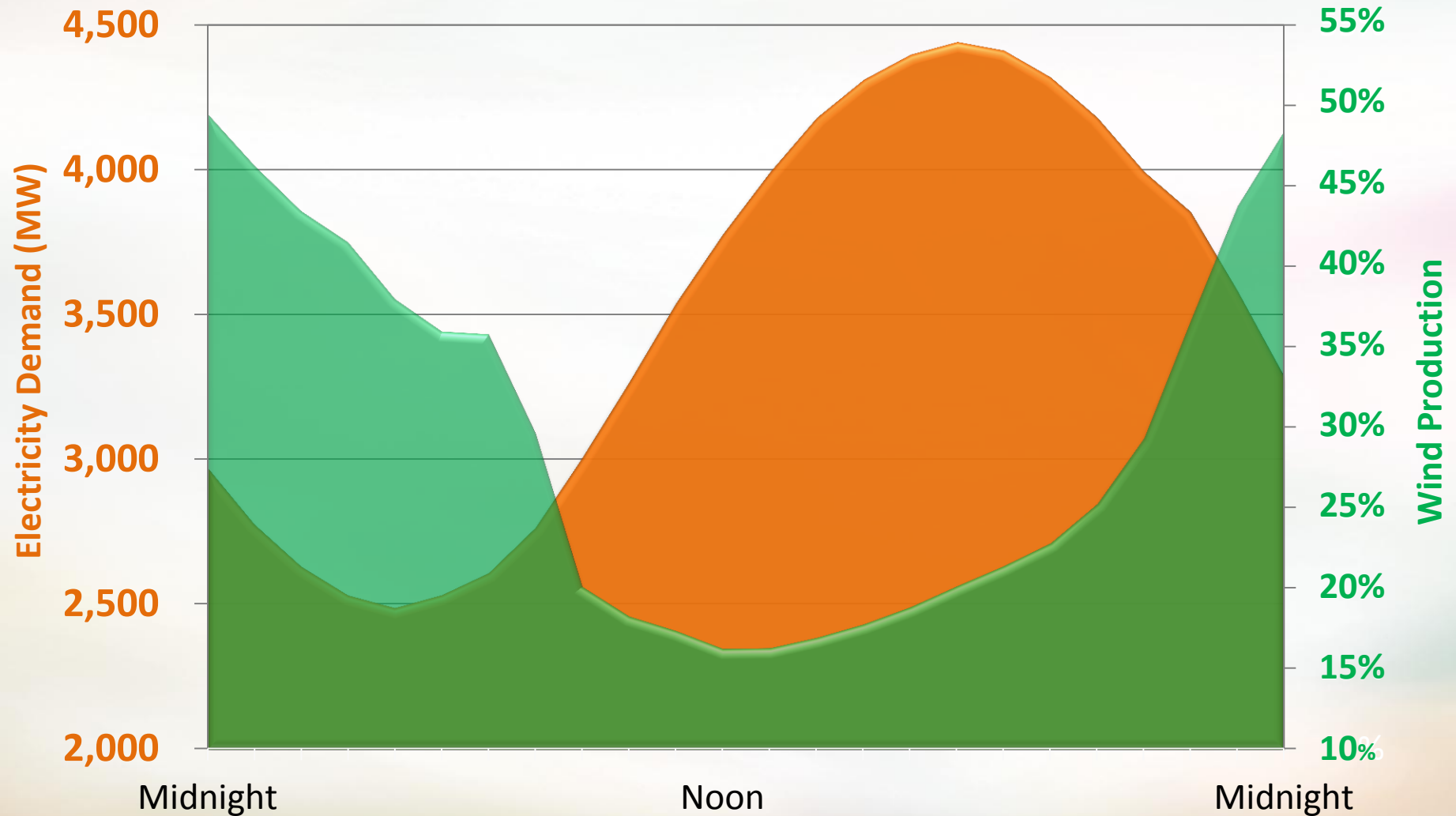
U.S. Fuel Mix



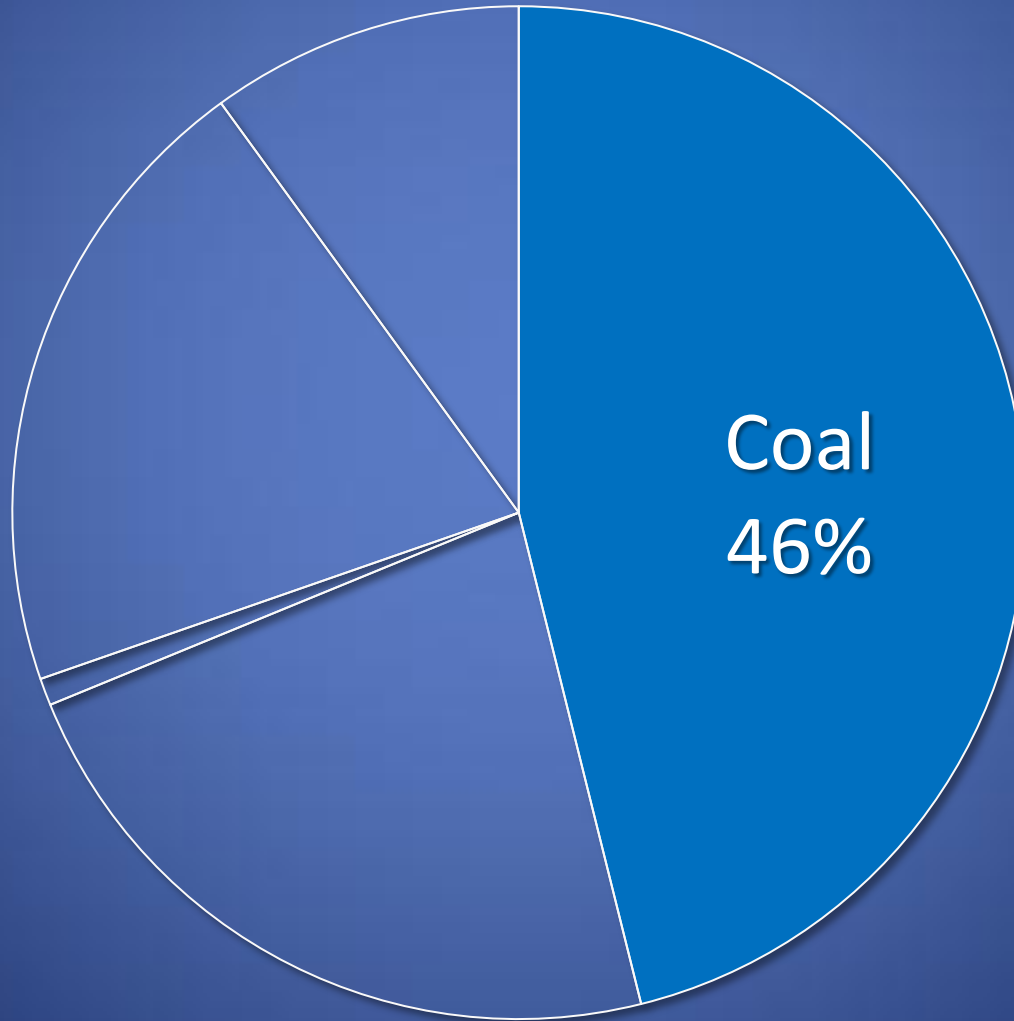
Hourly Temperature



Electricity Demand vs. Wind Production



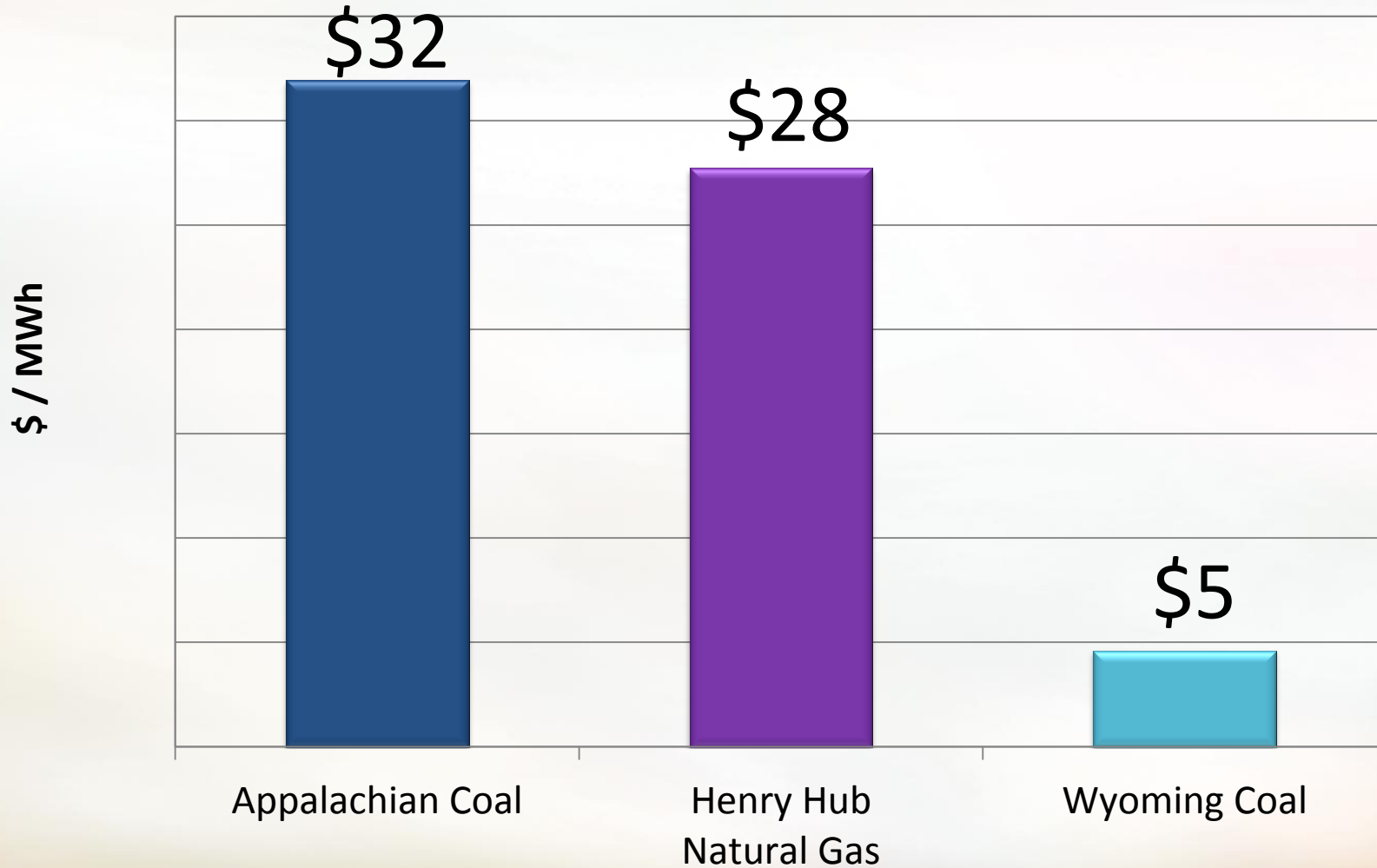
U.S. Fuel Mix







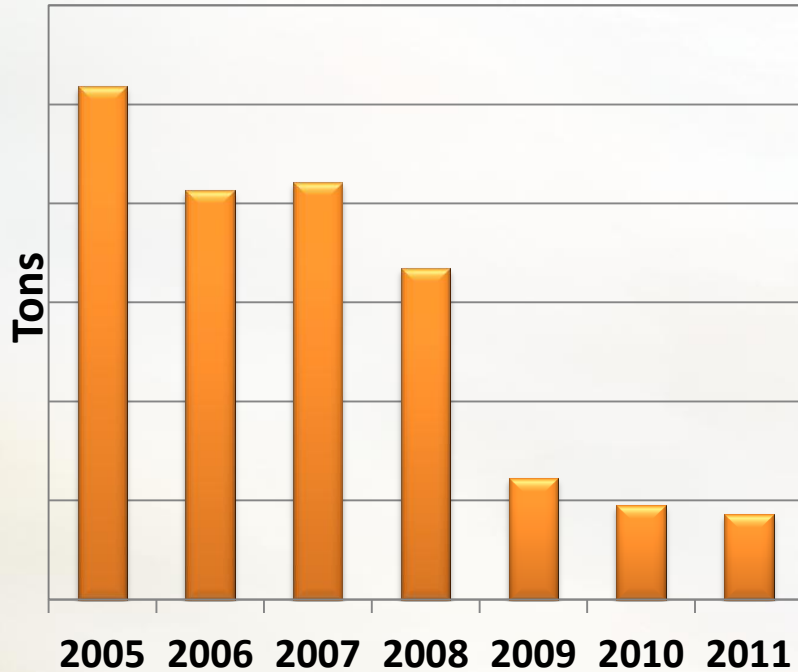
Westar's Access to Cheap Coal



Air Quality Improvement

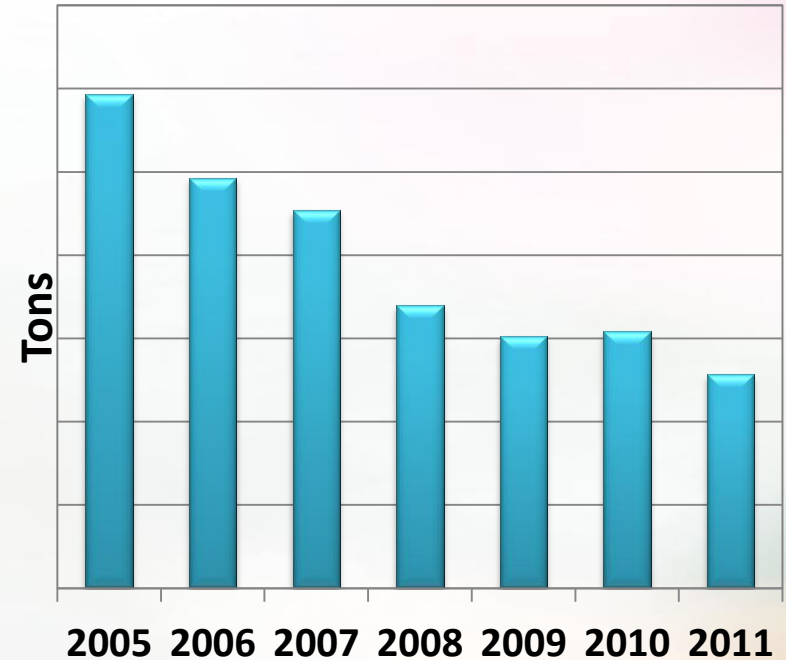
Sulfur Dioxide

↓ 83%

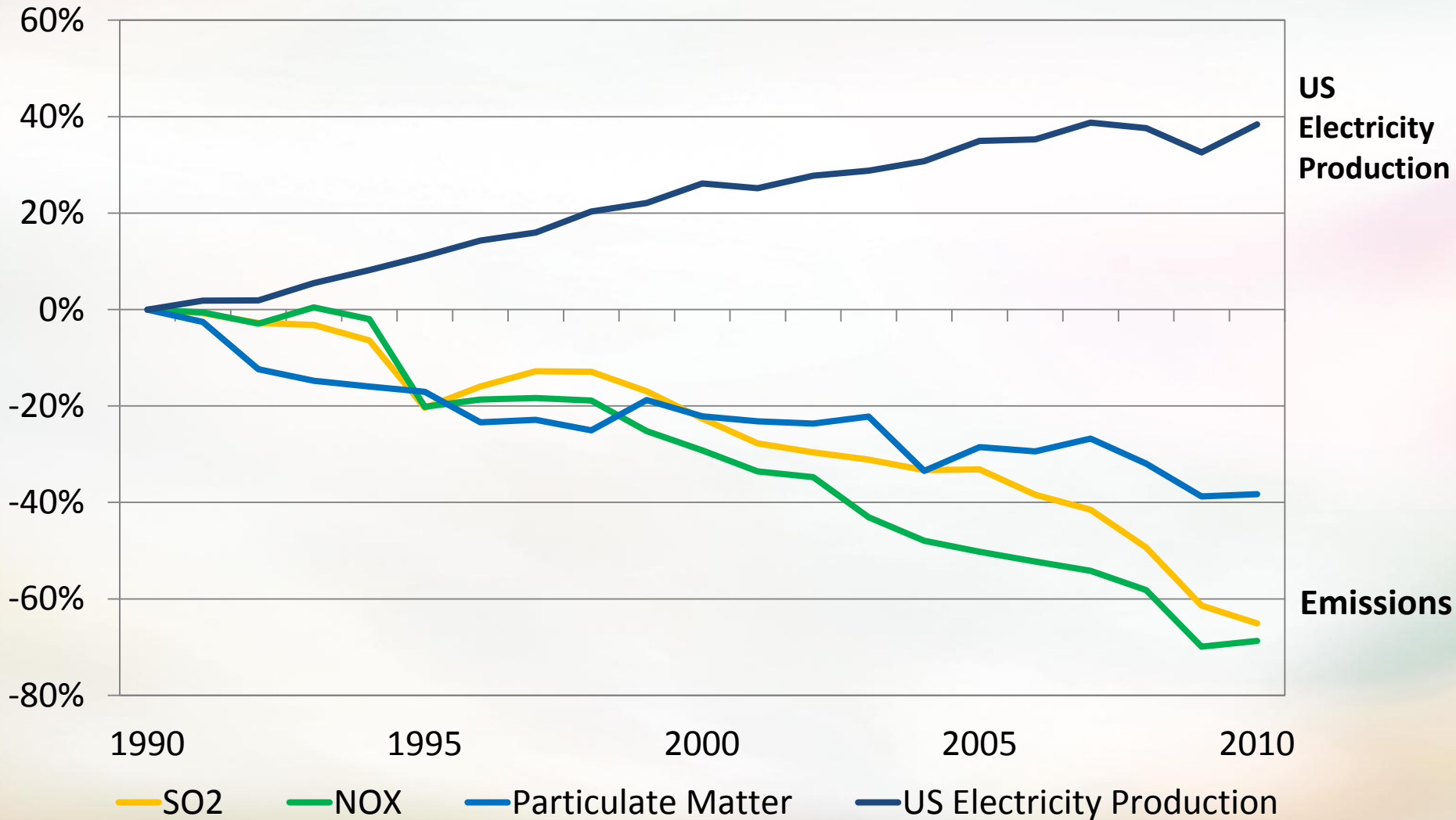


Nitrogen Oxide


↓ 57%



Emissions Down as Production Increases



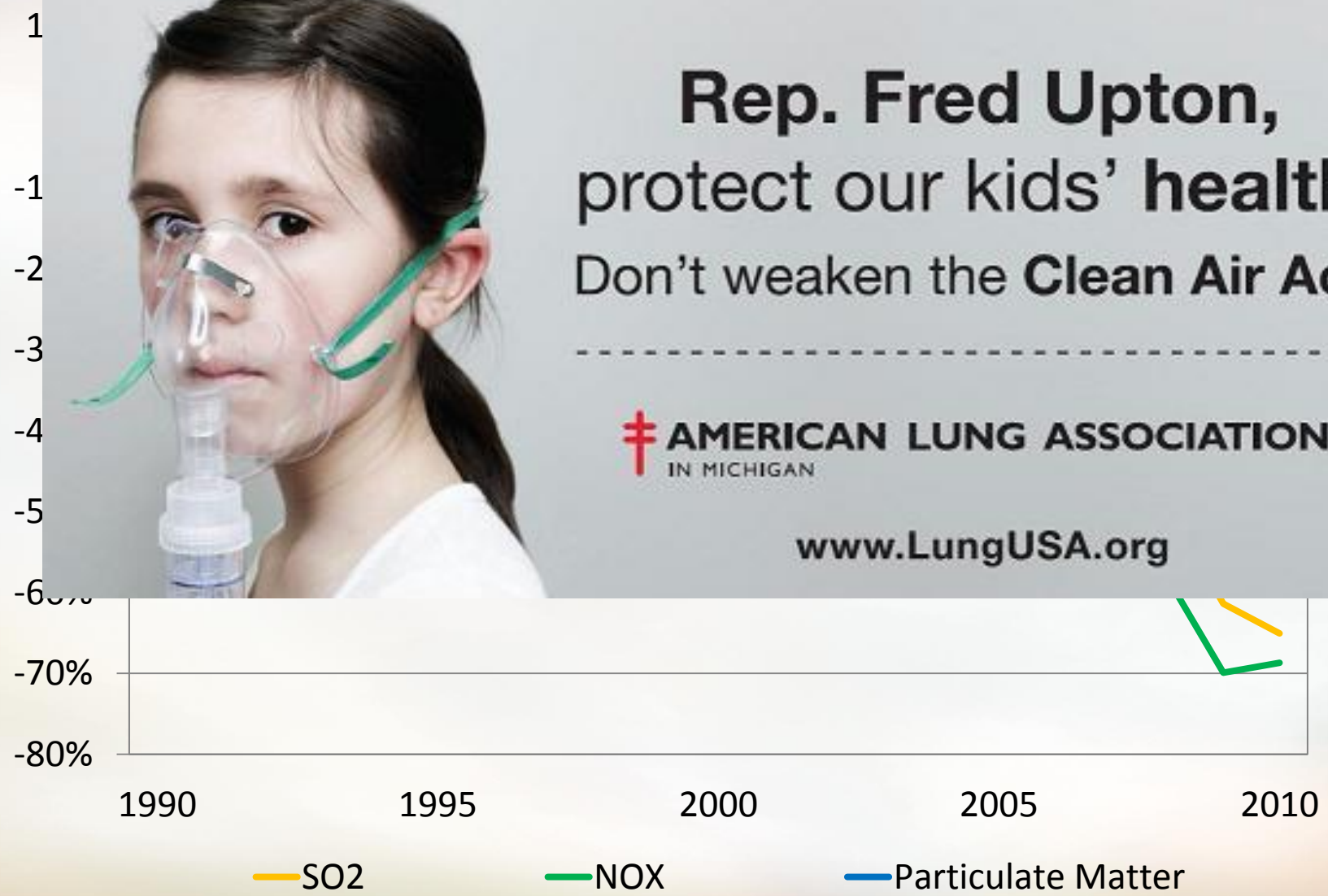
Emissions Down



**Rep. Fred Upton,
protect our kids' health.
Don't weaken the Clean Air Act.**

 **AMERICAN LUNG ASSOCIATION.**
IN MICHIGAN

www.LungUSA.org



Source: US EPA, "National Trends in Particulate Matter Levels"; USEIA





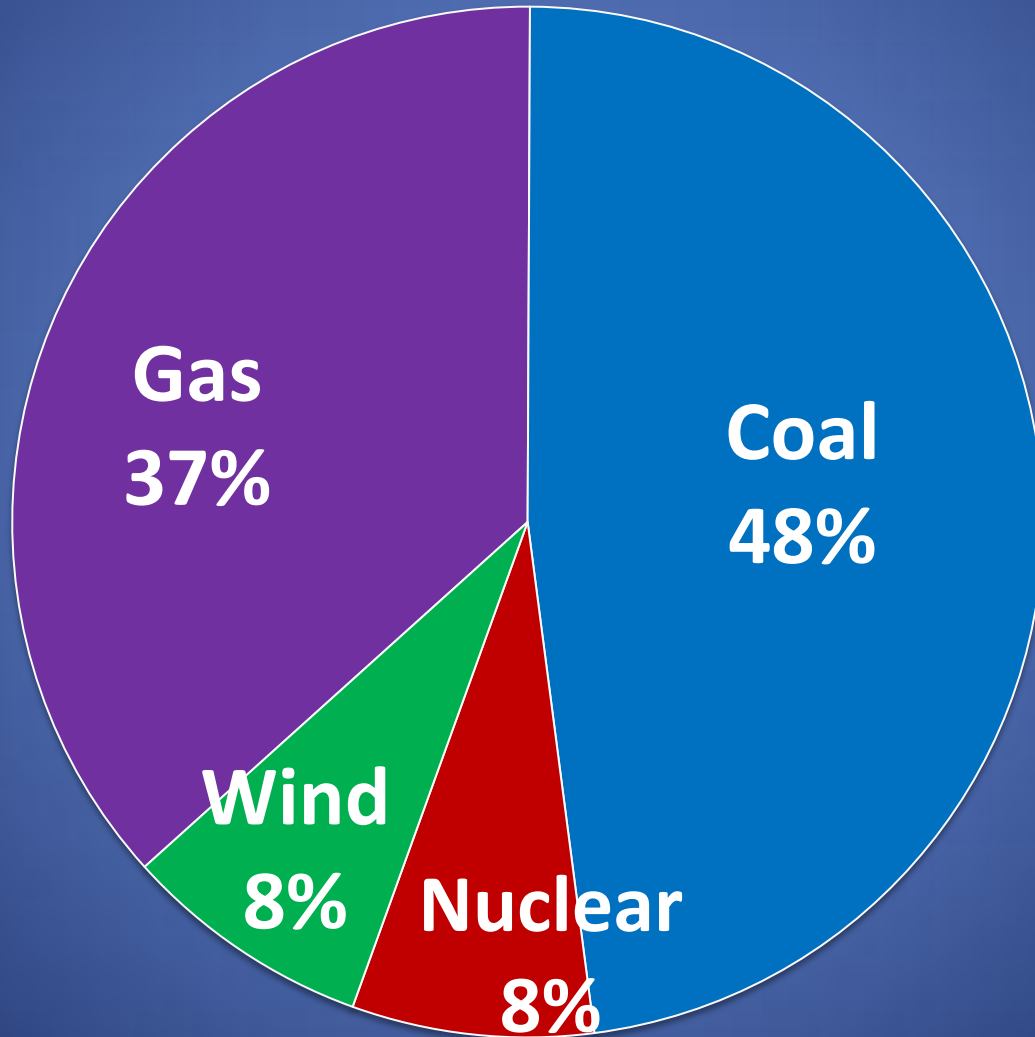
\$40 million
75% ↓



\$250 million
90% ↓



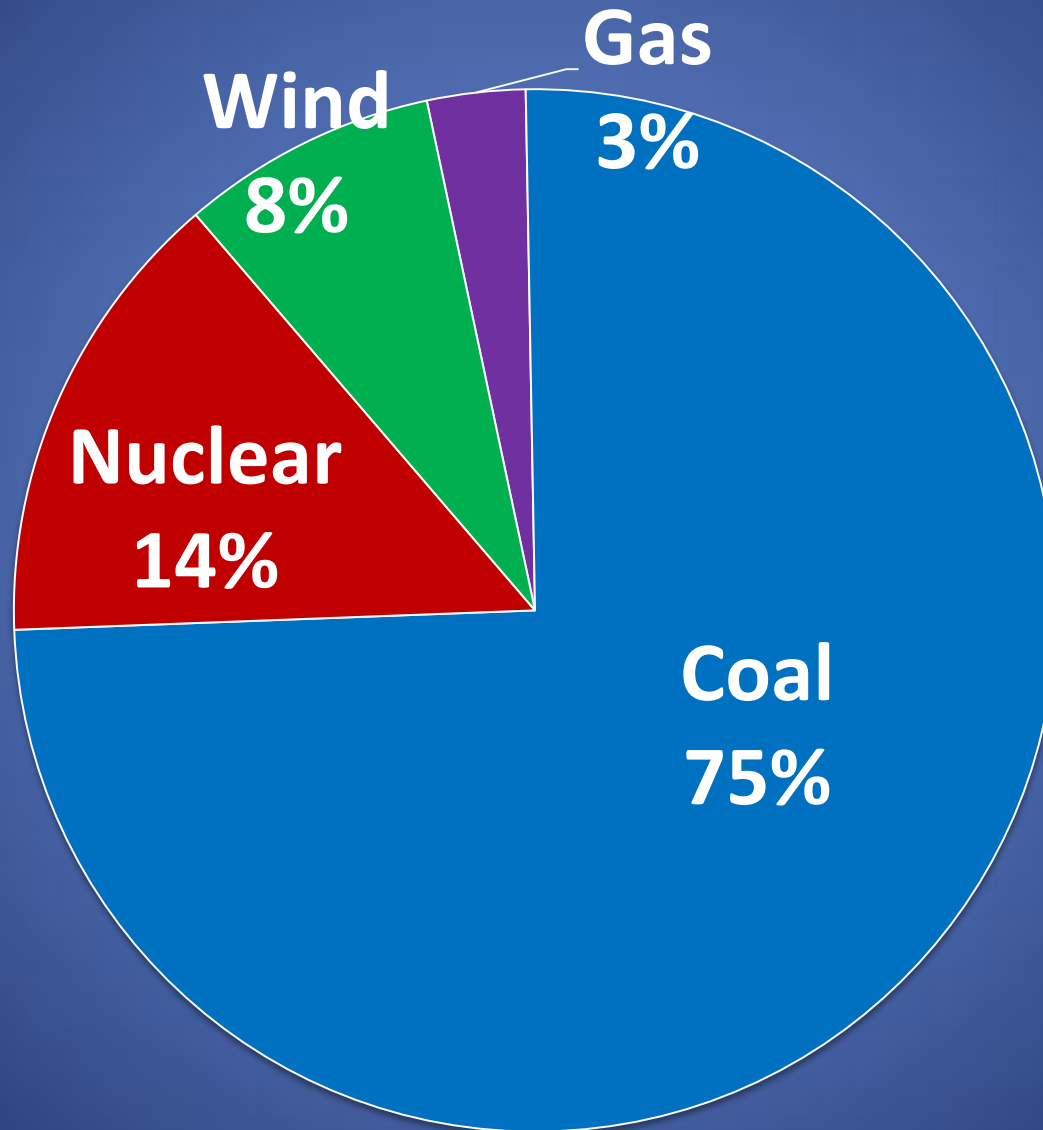
Electricity Capability



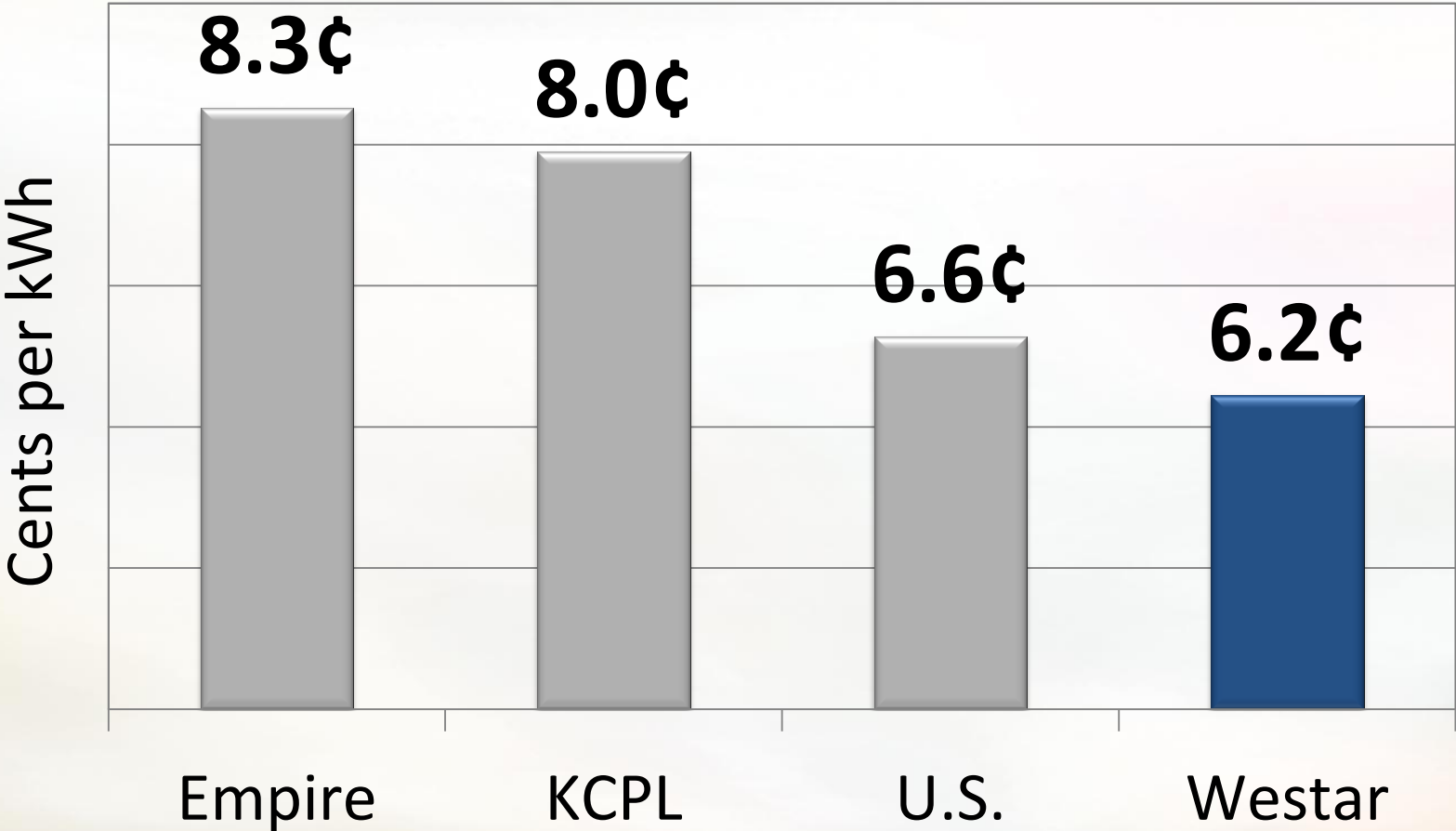
Source: Westar 10-K, Budget & Forecast



Optimized



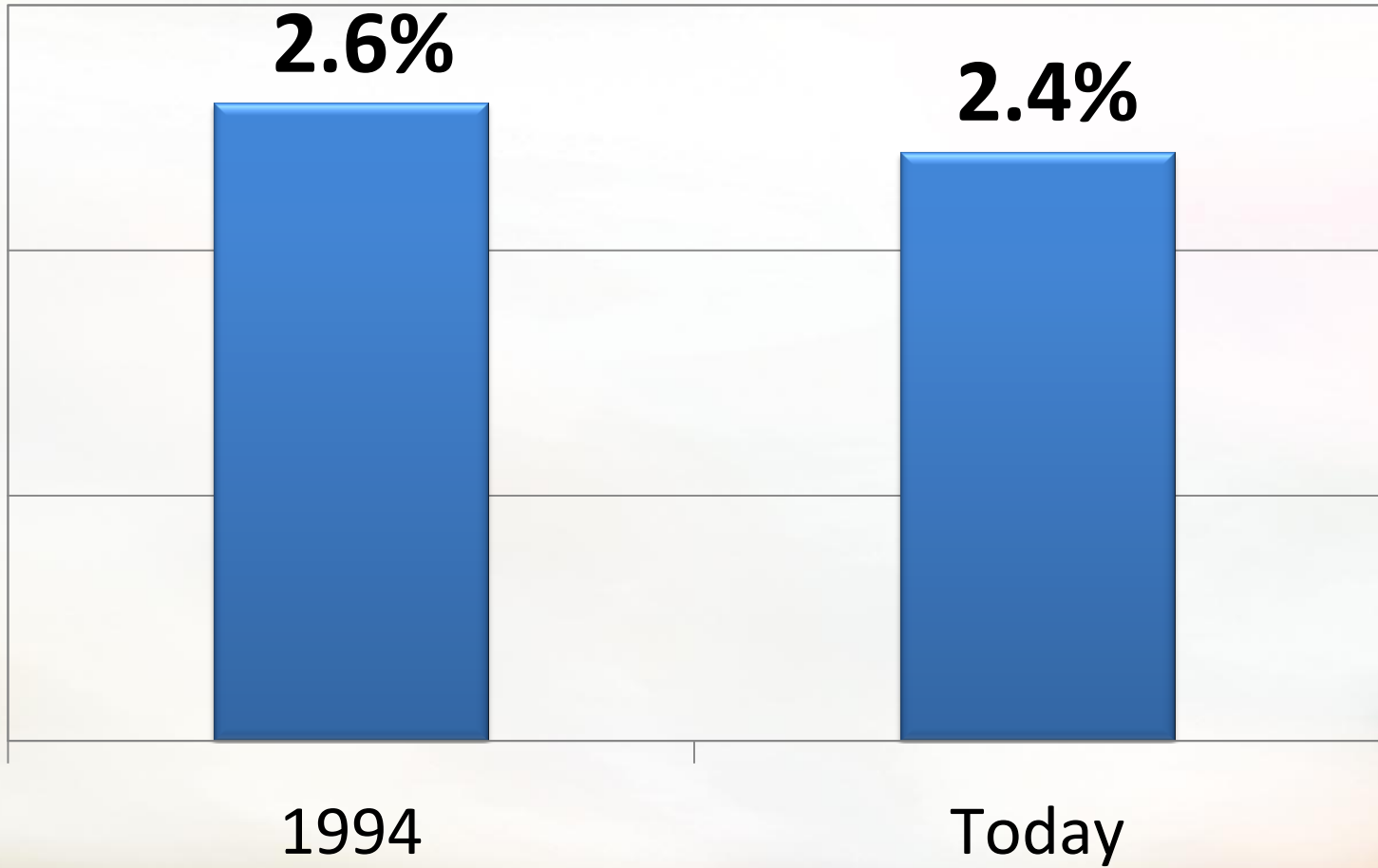
Westar's Favorable Industrial Rates



Source: Edison Electric Institute



Electricity as % of Household Income

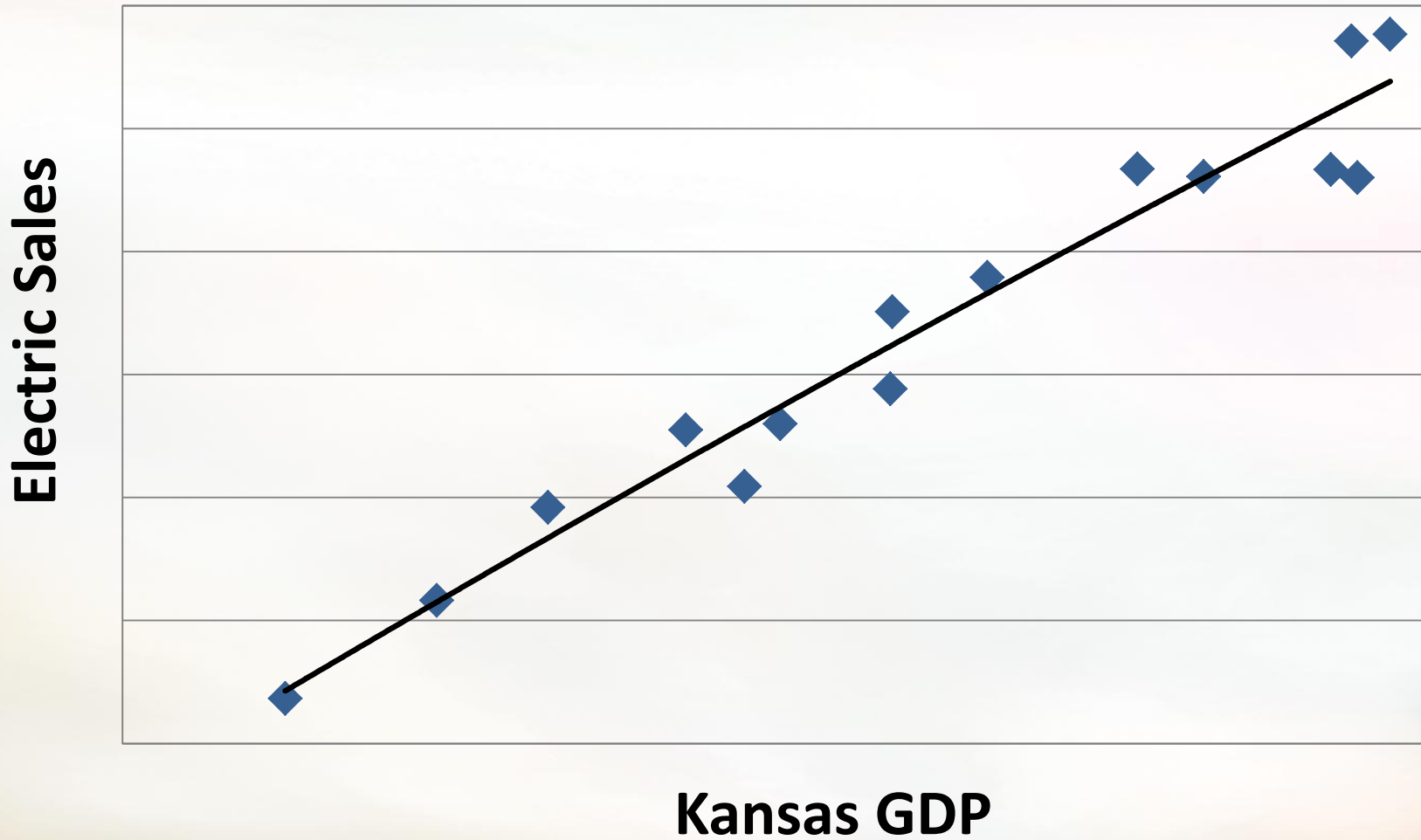


Customer Additions Down Dramatically



Westar Sales vs Kansas GDP

15 years





Available. Reliable. Affordable.