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The Regulatory Framework for Natural Gas in the U.S. and Massachusetts

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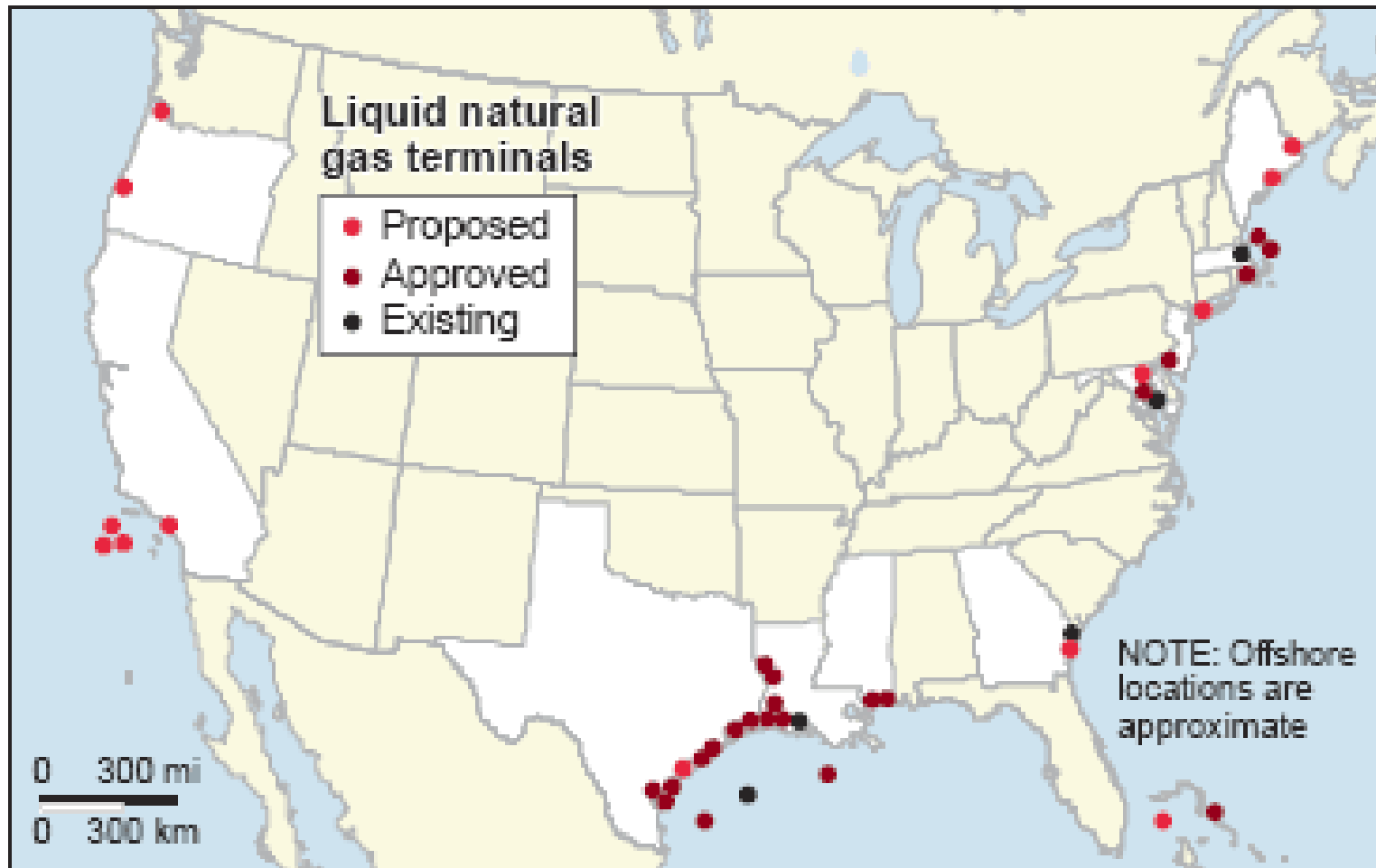
12 August, 2013

Overview

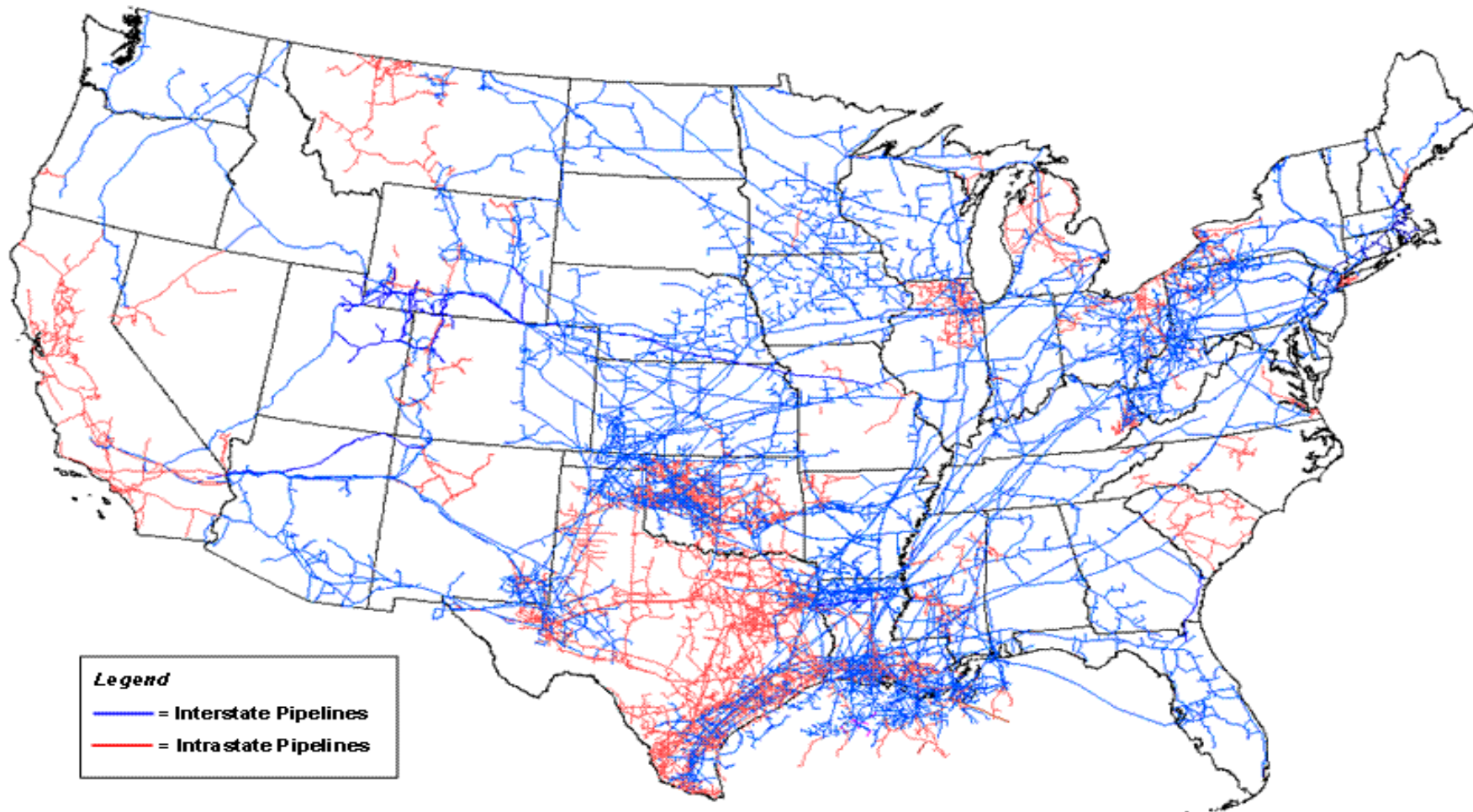
- The natural gas sector at a glance
- 100 years of regulation evolution
- Current regulatory landscape
 - Federal - State
- The case in Massachusetts

The Natural Gas Sector

- >500,000 natural gas wells
- > 300,000 miles (>480,000 km) of transmission pipeline
- >1,500 local distribution companies (LDCs)
- >100 LNG facilities
- 30% of electricity in US is from NG; (16% in 2003)
- Wholesale price is characterized by volatility



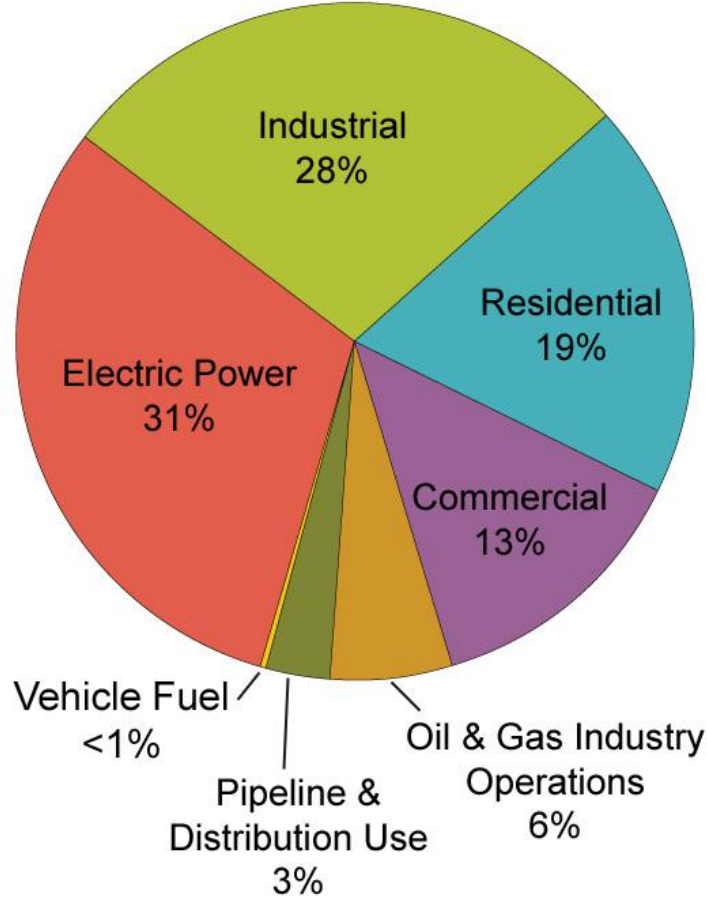
SOURCES: Federal Energy Regulatory Commission; ESRI



Source: Energy Information Administration, Office of Oil & Gas, Natural Gas Division, Gas Transportation Information System

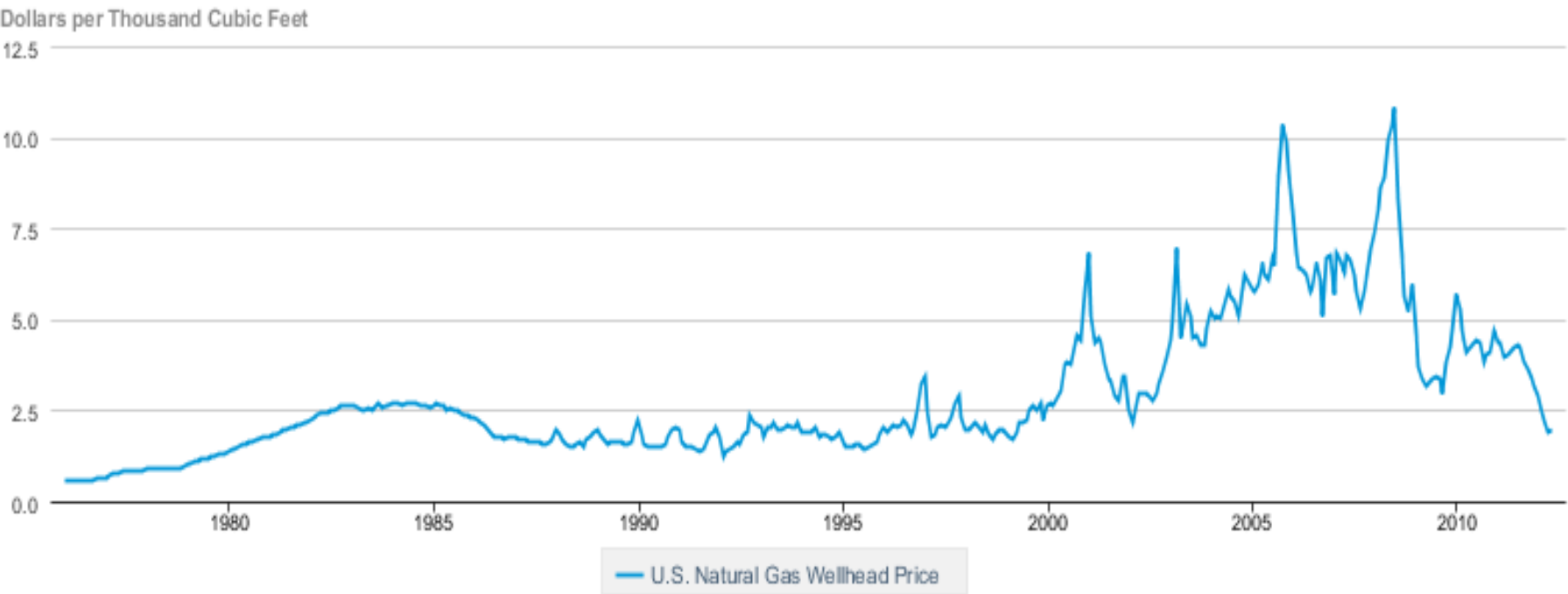
Massachusetts

Natural Gas Use, 2011



Source: U.S. Energy Information Administration, *Natural Gas Monthly* (April 2012).

U.S. Natural Gas Wellhead Price



 Source: U.S. Energy Information Administration

History of Regulation

Balancing:

incentives for investment, exploration, innovation, and revenue \Leftrightarrow
costs for consumers (and more recently with public interest, e.g.,
environmental issues.)

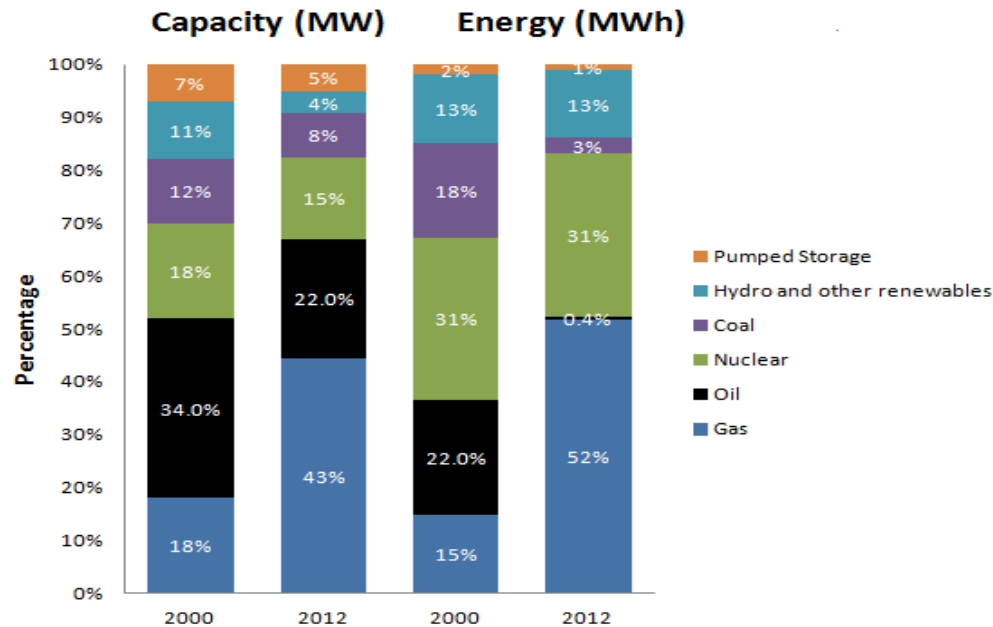
- 1910-1950 – Rapid growth and development, regulation of monopolies
- 1950s-1970s – Narrow regulation
- 1970s-1980s – Significant regulatory inefficiencies
- 1980s-present – Deregulation, and greater dependence on competition and markets, but with regulatory oversight by federal and state governments

Current Regulatory Status: Different Roles for State and Federal Governments

- State – Public Utilities Commission:
 - Regulates intrastate pipelines
 - Regulates local distribution utilities (rates, service, safety)
- Federal - Federal Energy Regulatory Commission (FERC) :
 - Regulates interstate pipelines (rates, construction, safety, environmental impact)
- Regional – Independent System Operator (ISO), for electric:
 - Creates market rules; balances supply/demand; regional planning (under federal jurisdiction)

Natural Gas in Massachusetts

- No natural gas resource
- Pipeline constraints into the region
- Recent over-dependence on natural gas for electricity



Natural Gas in Massachusetts

- Gas (thermal)-Electric interactions
- Who would pay for new pipeline? And how?
- Seek to better integrate regulatory regimes between gas and electric