

Unconventional Gas and the North American Energy Market

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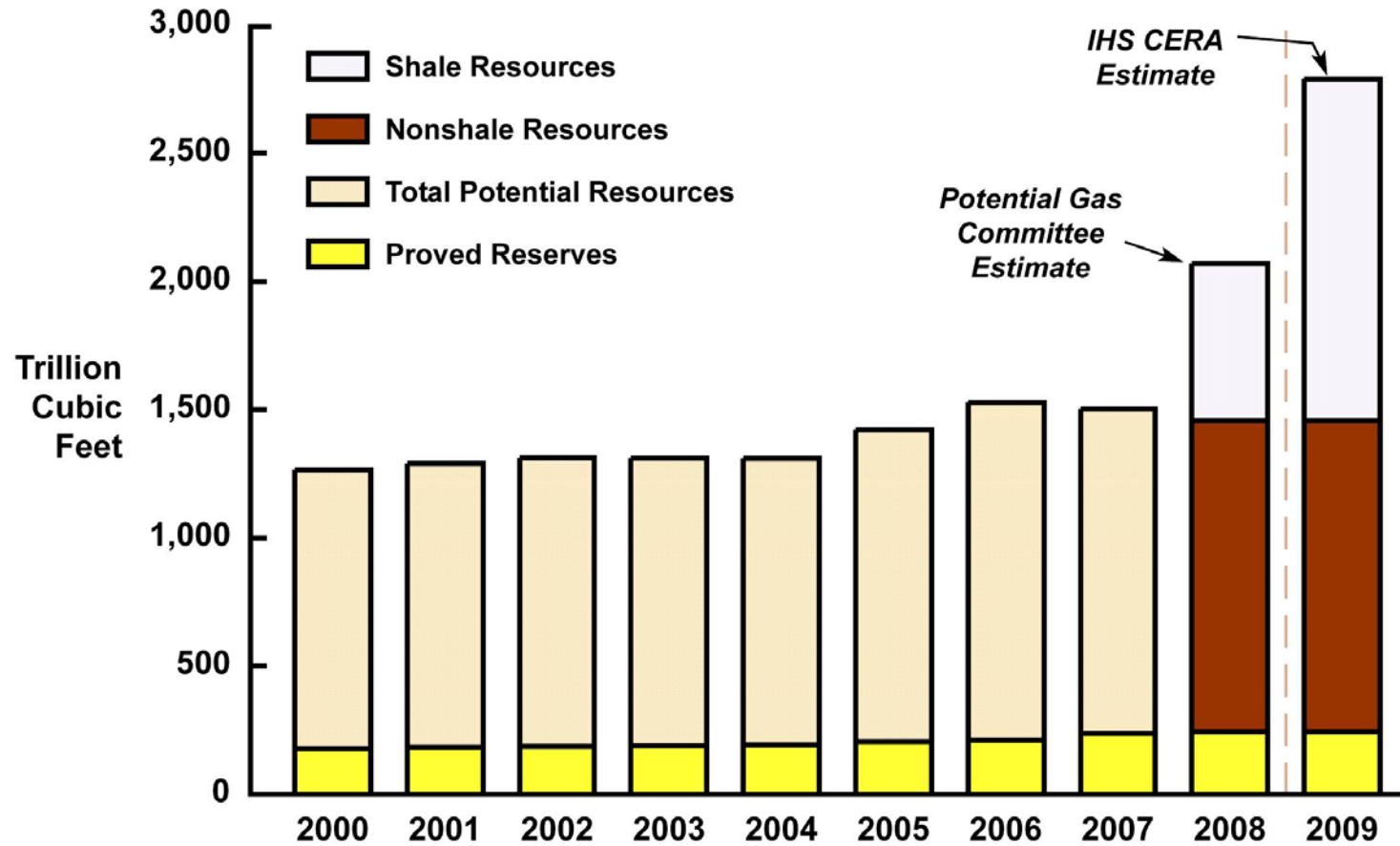
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US Natural Gas Reserves and Resources

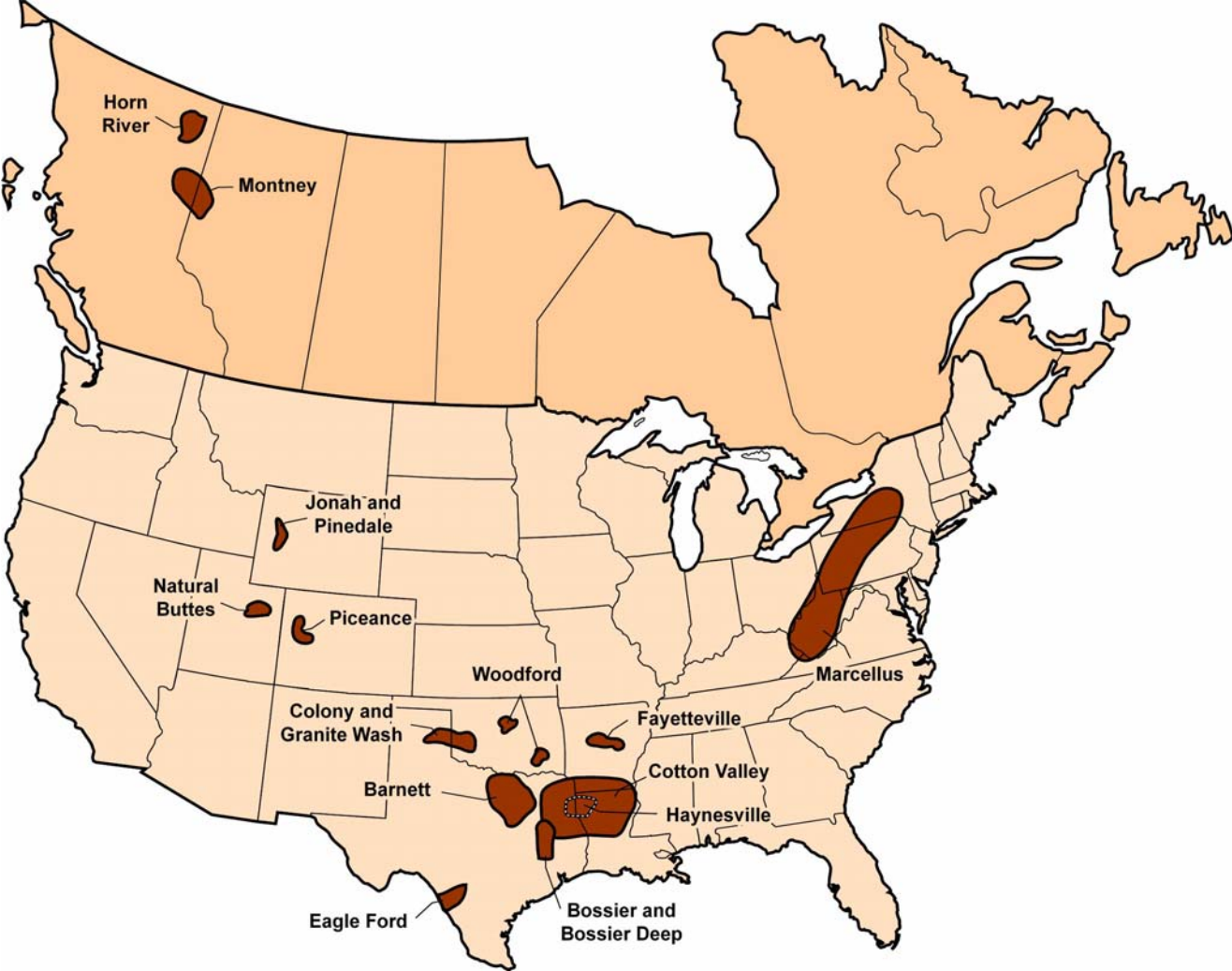


Source: EIA, PGC, and IHS CERA.
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Current North American Unconventional Gas Hotspots



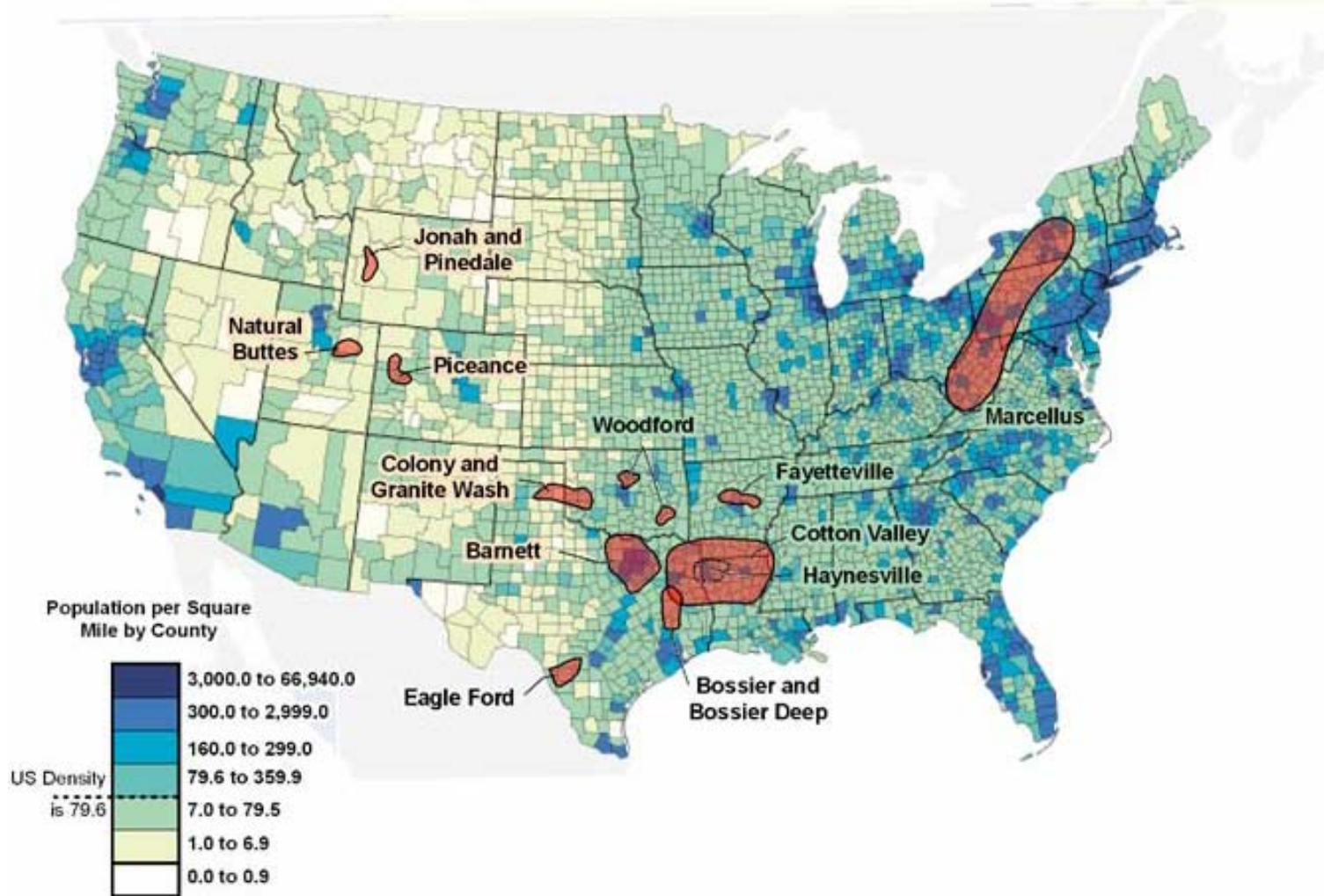
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IHS CERA. Calgary, May 2010



Shale Gas Plays and Population Density

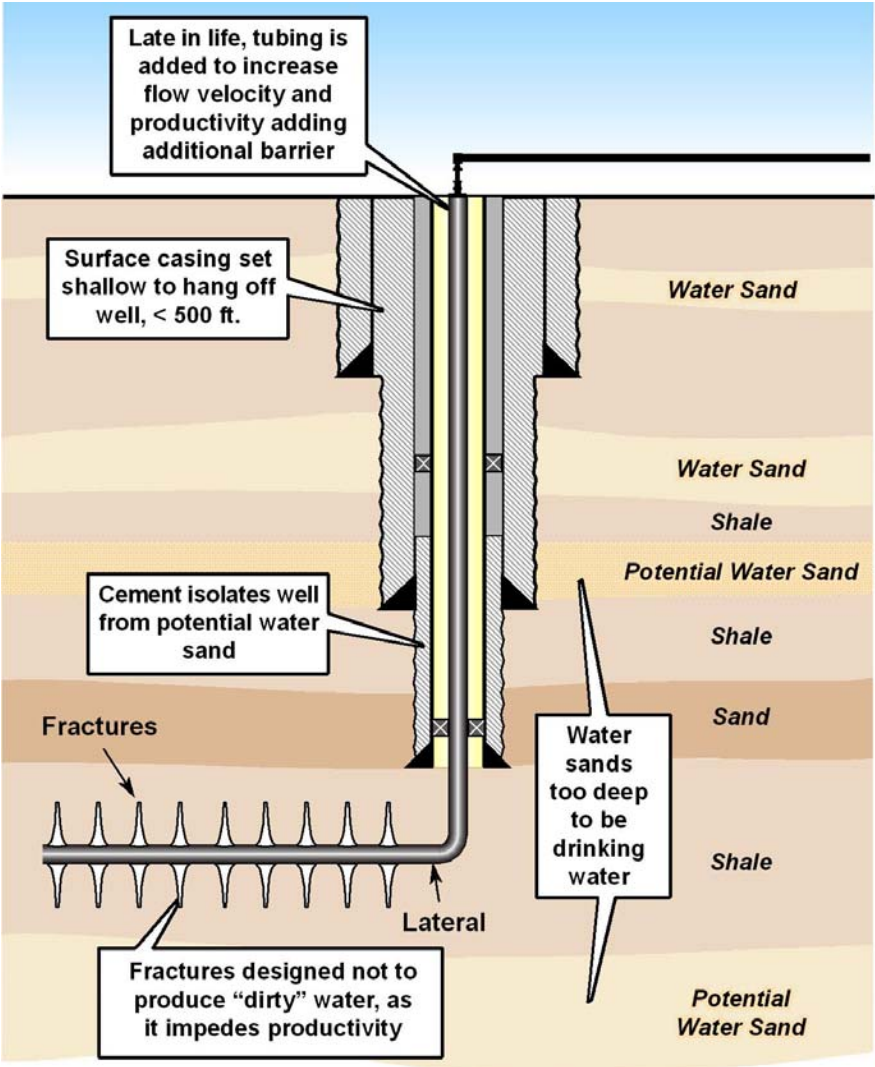


Source: IHS CERA and US Census Bureau, *Census 2000*.
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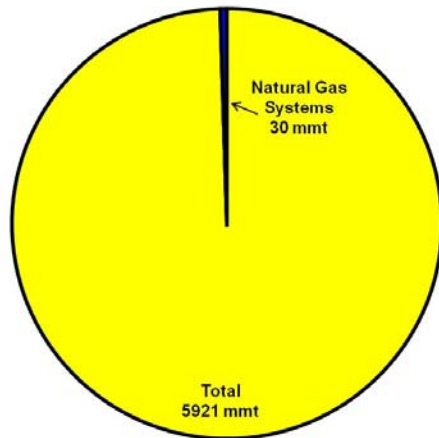
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Schematic of a Shale Gas Well



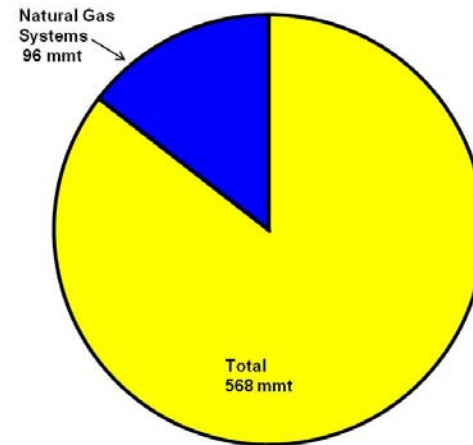
GHG Emissions from Natural Gas Systems (million metric tons CO₂ equivalent)

US CO₂ Emissions 2008



- CO₂ emissions from natural gas systems totaled 30 million metric tons CO₂ equivalent in 2008
- This represents 0.5% of total CO₂ emissions of 5,921 million metric tons CO₂ equivalent in 2008

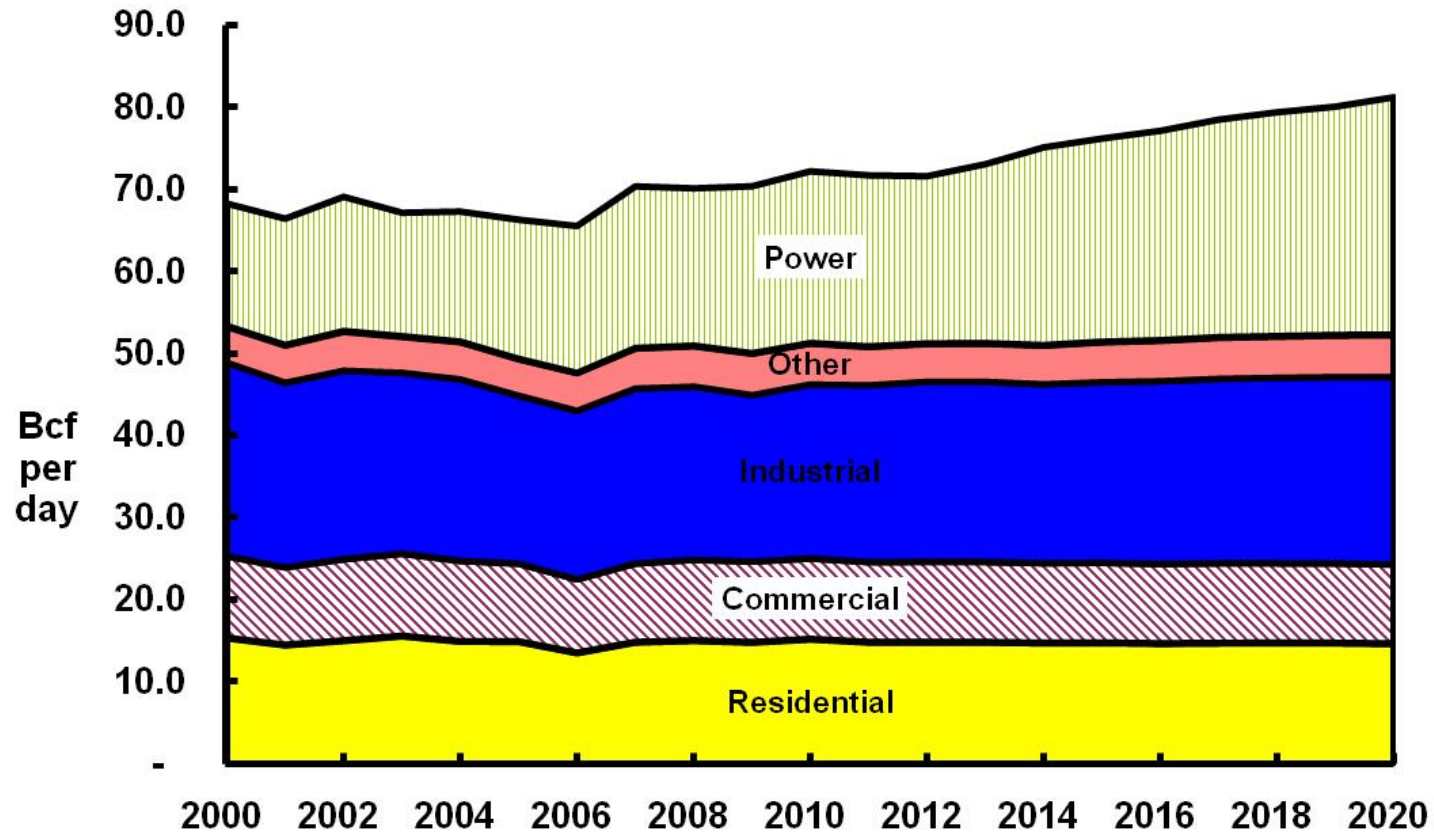
US Methane Emissions 2008



- Methane emissions from natural gas systems totaled 96 million metric tons CO₂ equivalent in 2008
- This represents 17% of total methane emissions of 568 million metric tons CO₂ equivalent in 2008



North American Natural Gas Demand



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