A World Class Opportunity

Marcellus Utica Houston Conference

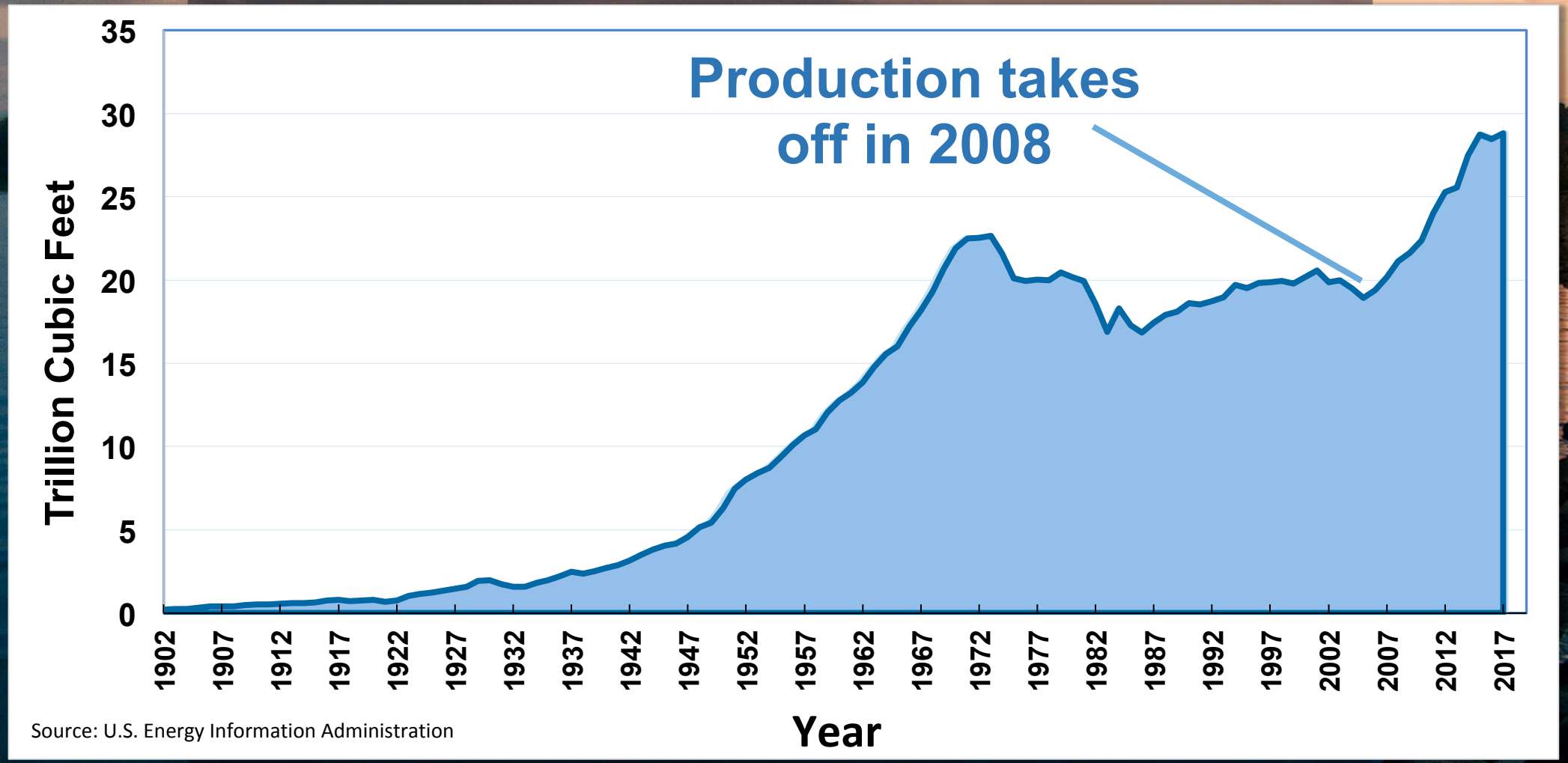
11/8/2018

NY
PA
OH
WV
CA
TX
Shale Crescent USA
THE OHIO VALLEY ENERGY ADVANTAGE

Shale Crescent USA:

- World Class Assets
- World Class Economic Advantages

Record U.S. Marketed Natural Gas Production:



Source: U.S. Energy Information Administration

Source: EIA.gov

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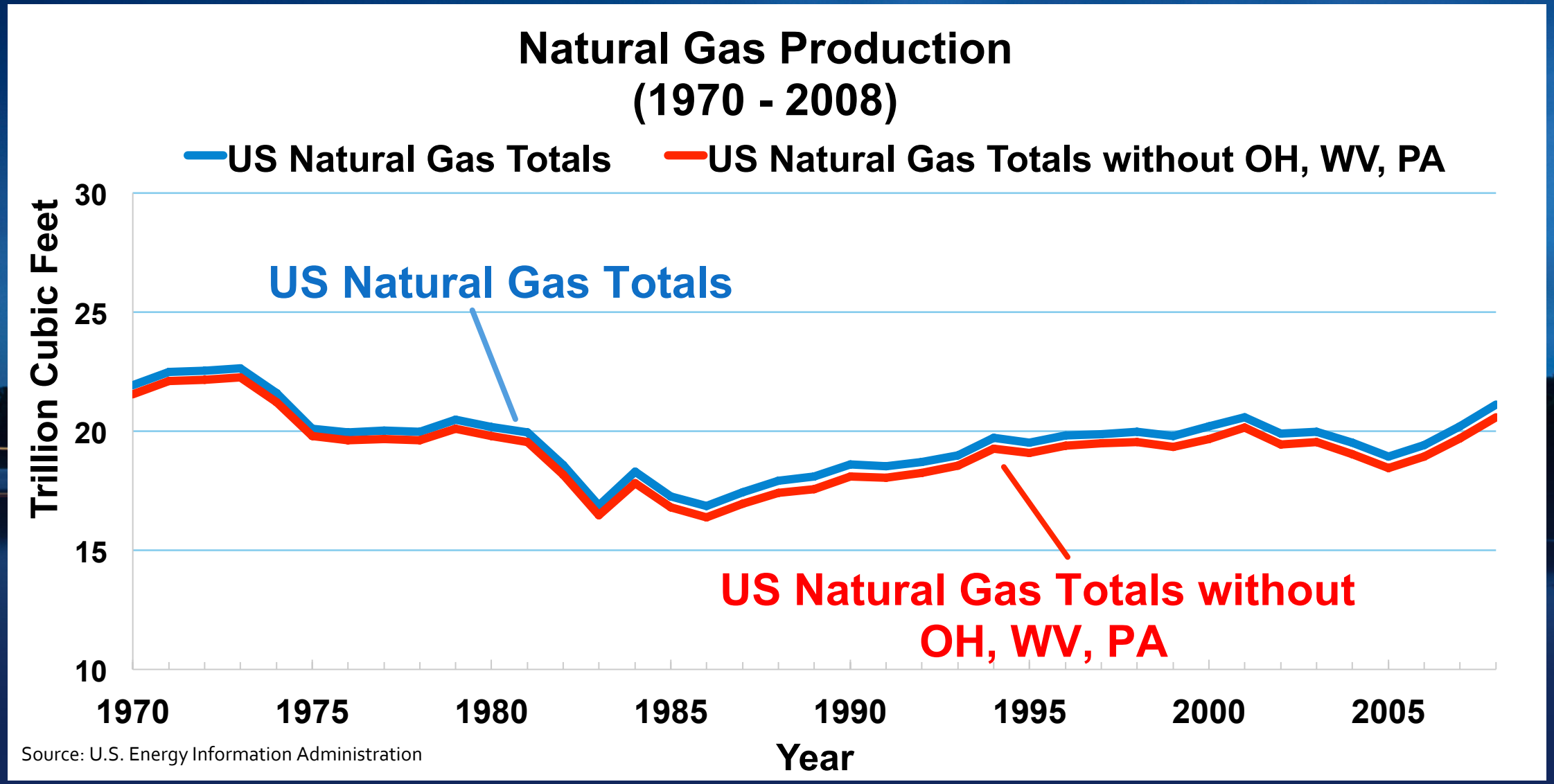
Natural Gas Production 1970-2008:



Source: EIA.gov

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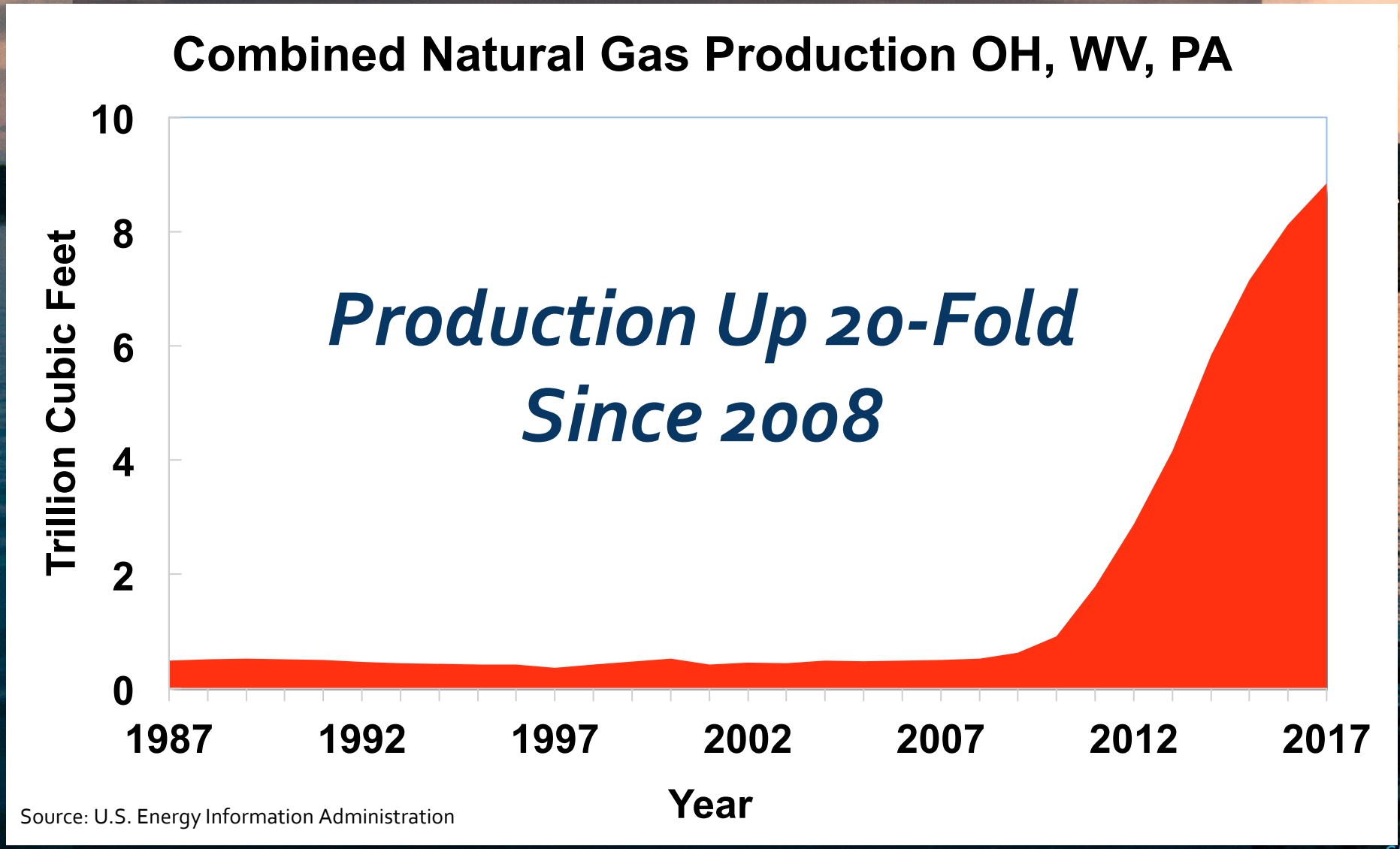
Natural Gas Growth in OH, WV, PA:



Source: EIA.gov

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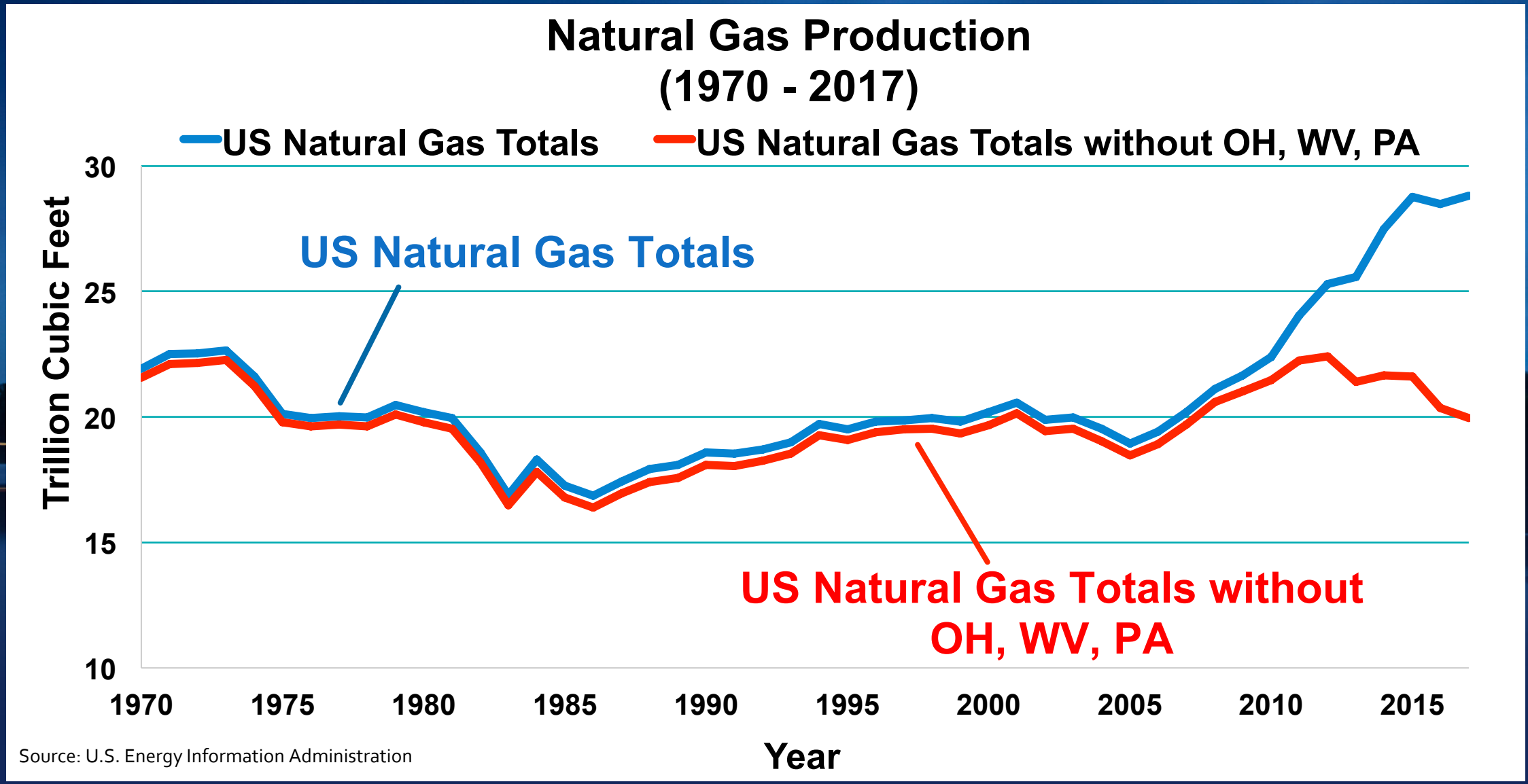
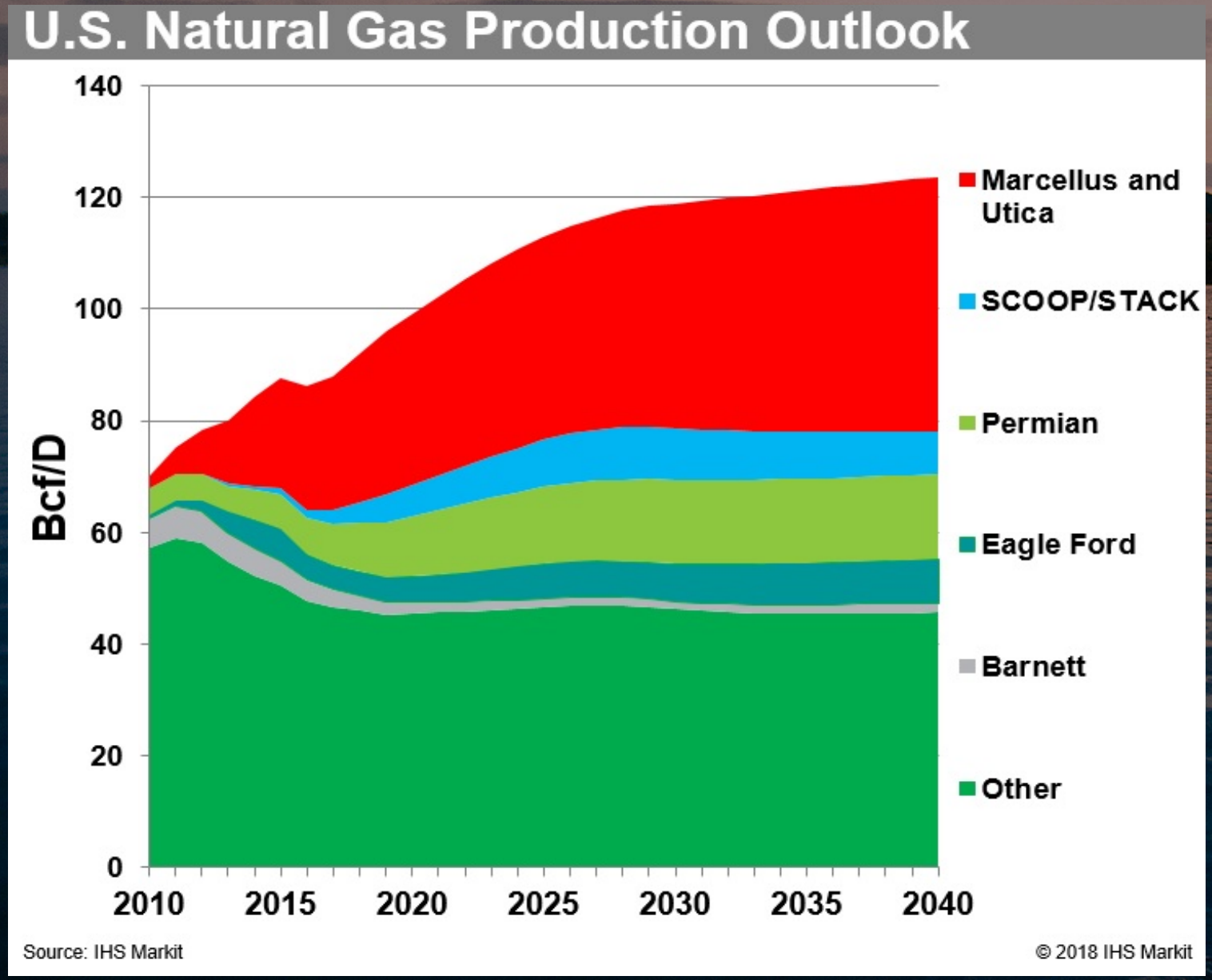
The Growth Has Been OH, WV, PA:



Source: EIA.gov

Projected Natural Gas Growth:



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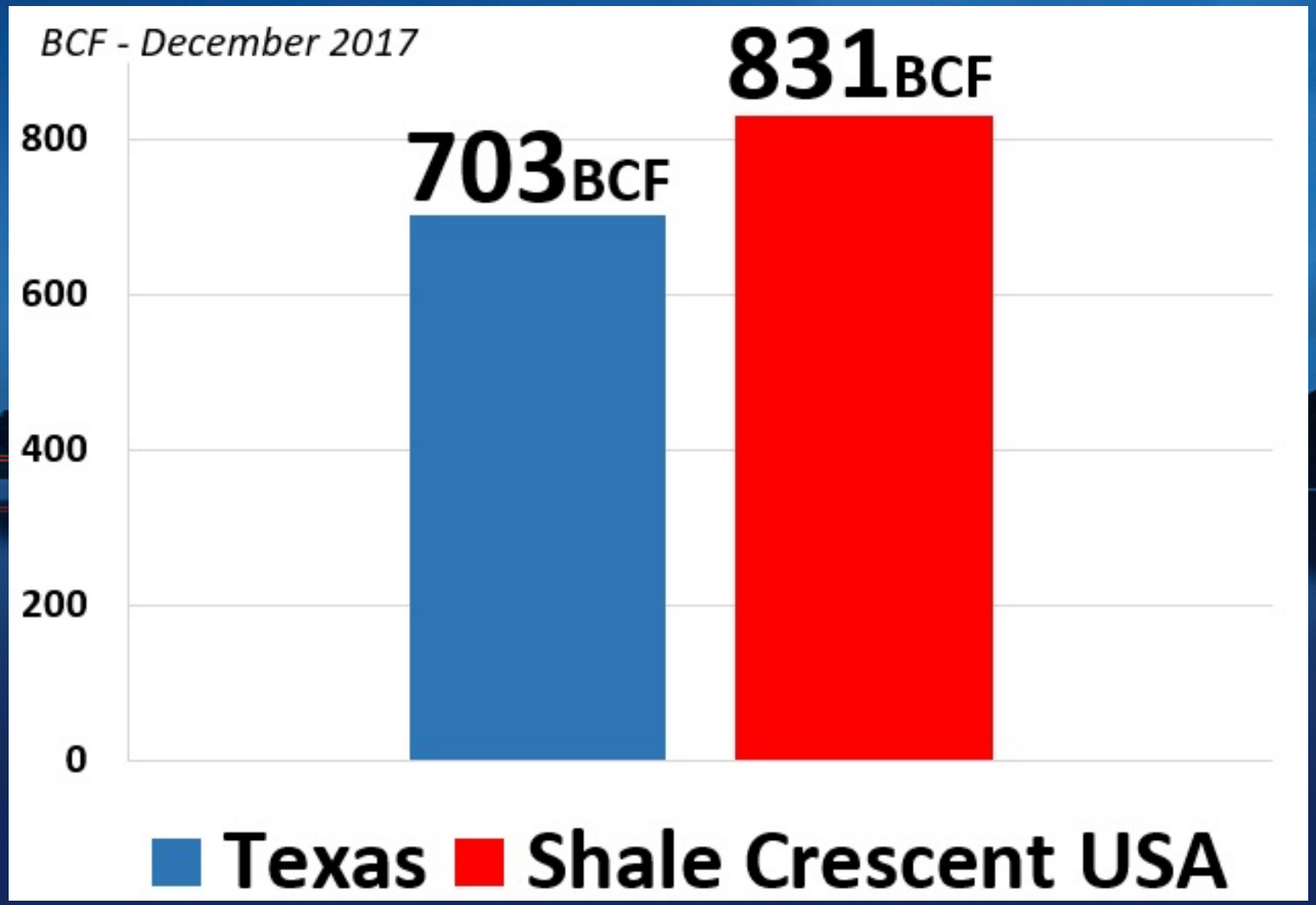
Has Surpassed Texas in Natural Gas Production



Source: Shale Crescent USA

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THE OHIO VALLEY ENERGY ADVANTAGE

Top Natural Gas Producers in the World

1st USA

2nd Russia

3rd Shale Crescent USA

4th Iran

5th Qatar

6th Canada

7th China

8th Norway

9th Saudi Arabia

10th Algeria

Source: Deloitte and Shale Crescent USA

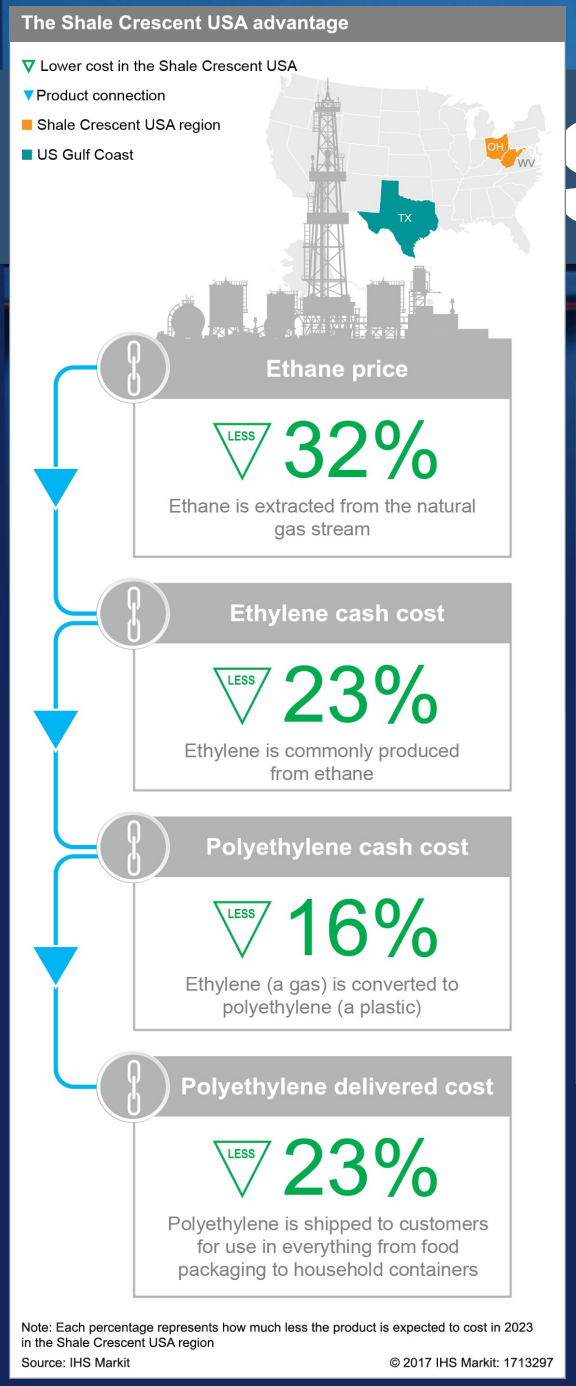
World Class Economic Advantages

2018 World Petrochemical Conference:

Shale Crescent USA
THE OHIO VALLEY ENERGY ADVANTAGE

Shale Crescent Advantages:

- **32%** Lower Ethane Price
- **23%** Lower Polyethylene Cost



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THE OHIO VALLEY ENERGY ADVANTAGE

Shale Crescent USA Economic Advantage:

IHS Markit™

The Shale Crescent USA has a pre-tax cash flow advantage of **$3.6 Billion** for a nearly **$3 Billion** investment in an ethylene/polyethylene plant.

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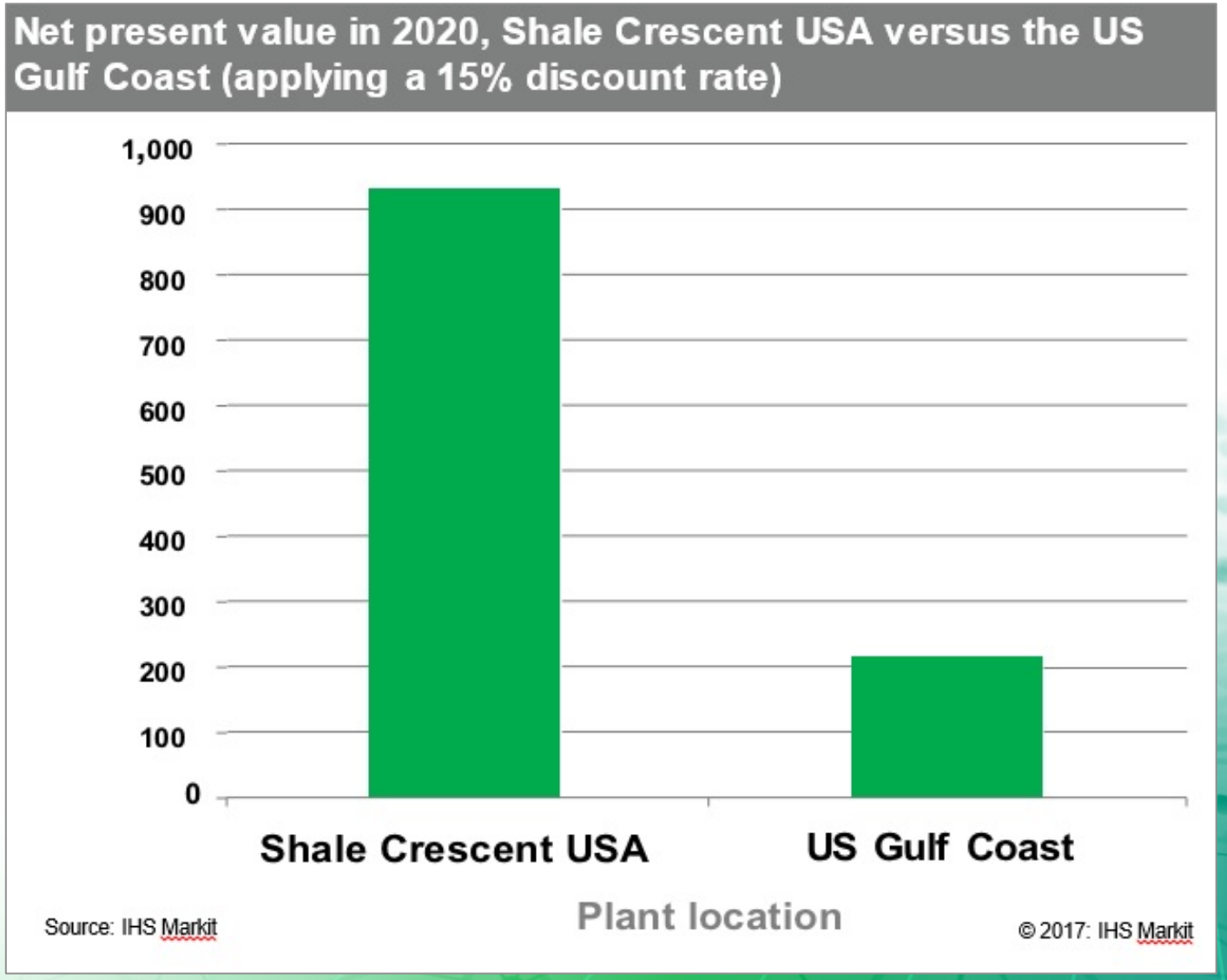
THE OHIO VALLEY ENERGY ADVANTAGE

IHS Markit™

4 times higher in the Shale Crescent USA than the Gulf Coast.



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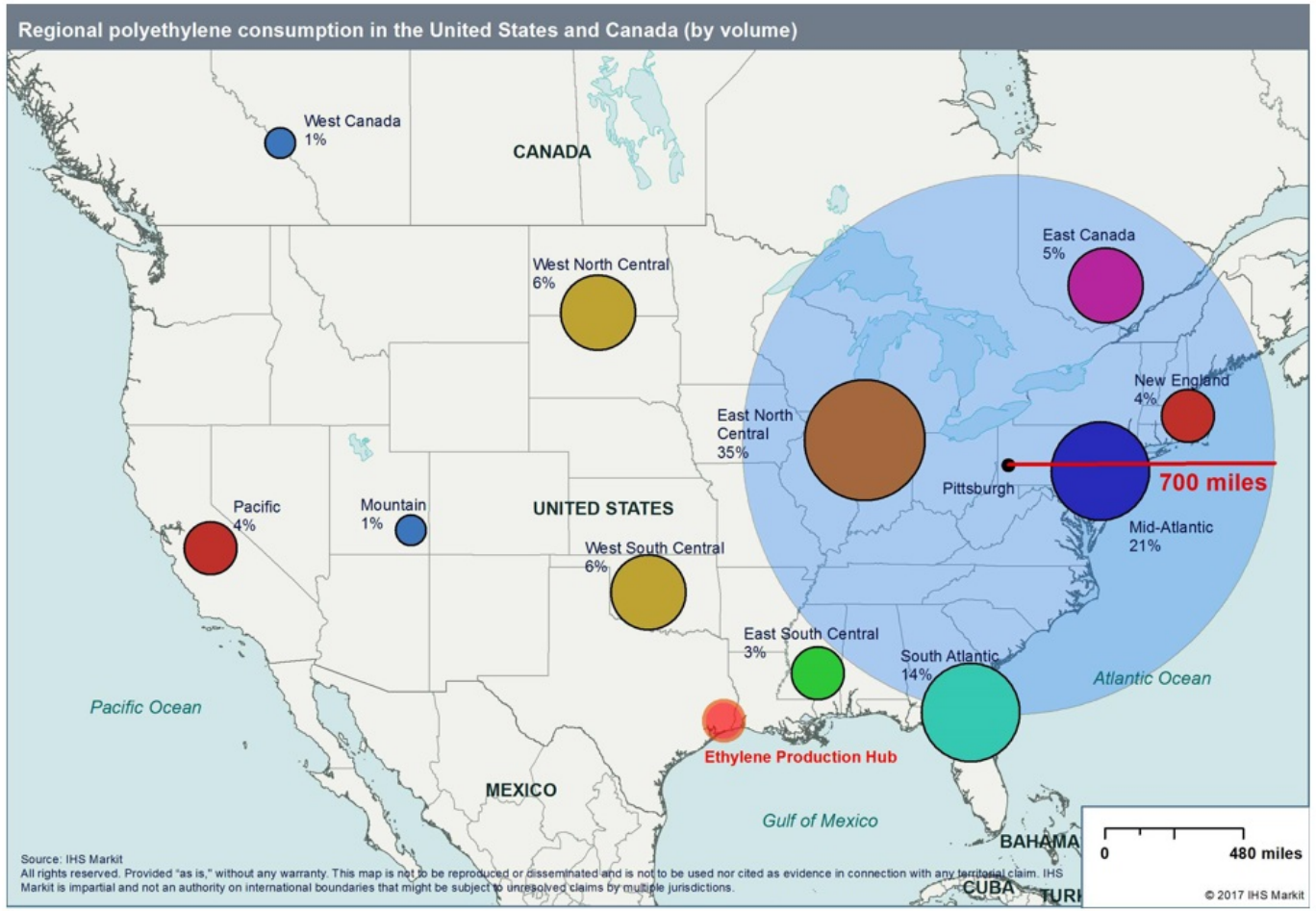
Proximity to Market



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Shipping Advantage:

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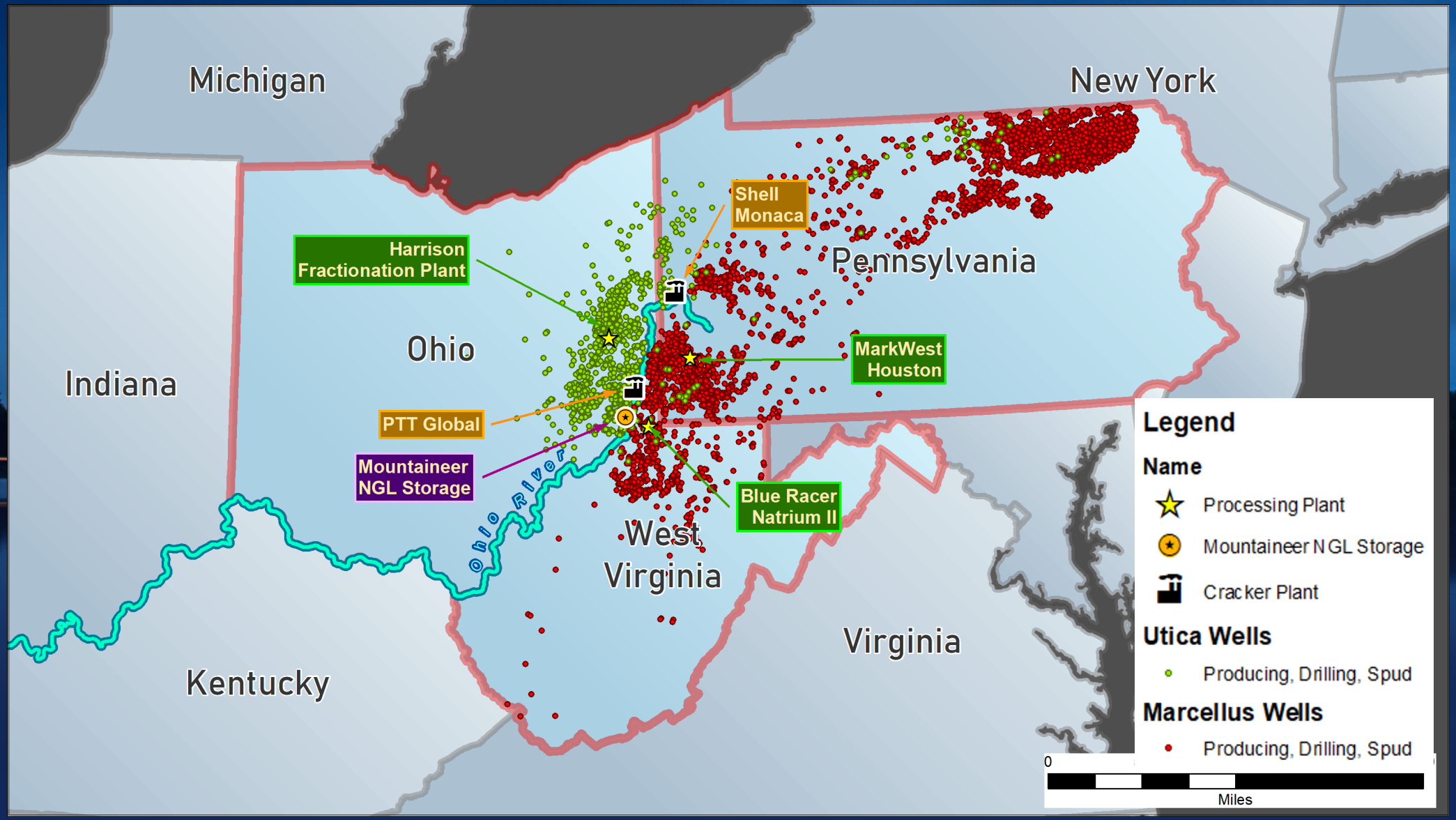
Supply Location Advantage:



Bloomberg

Thank You

Mark Schwendeman: Chairman

Jerry James: Vice-Chairman

Greg Kozera: Director

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