

The Whole U.S. LNG Story (In 10 Minutes)

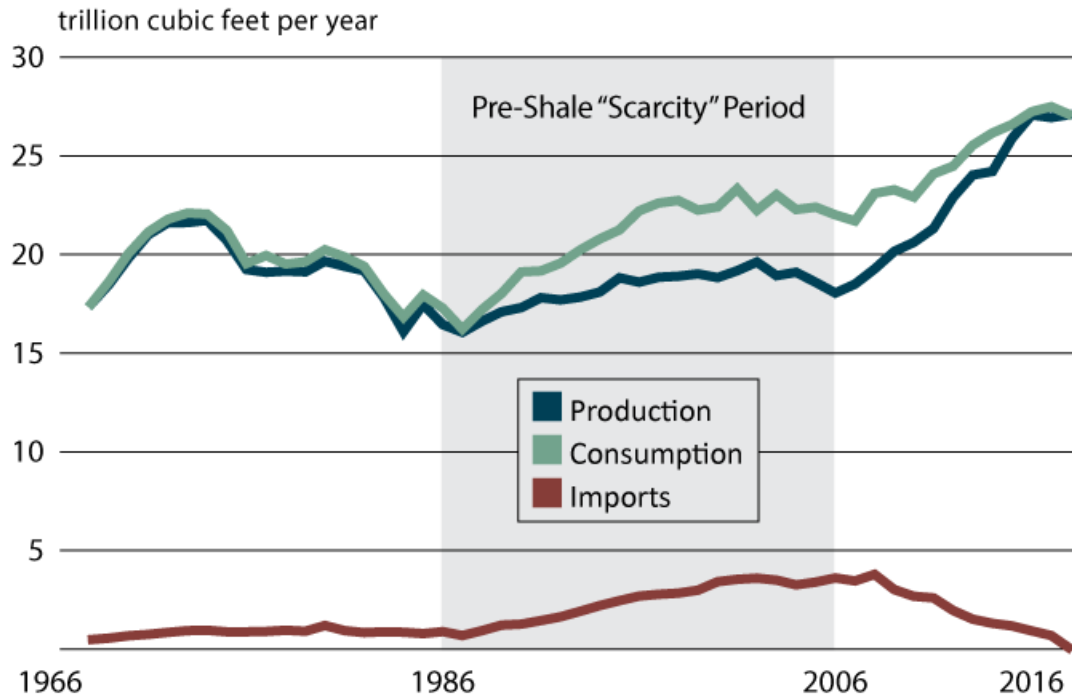
EnerCom's
The Oil & Gas Conference
Aug. 14 2019

LNG  Allies™
THE US LNG ASSOCIATION



Shale Changes Everything

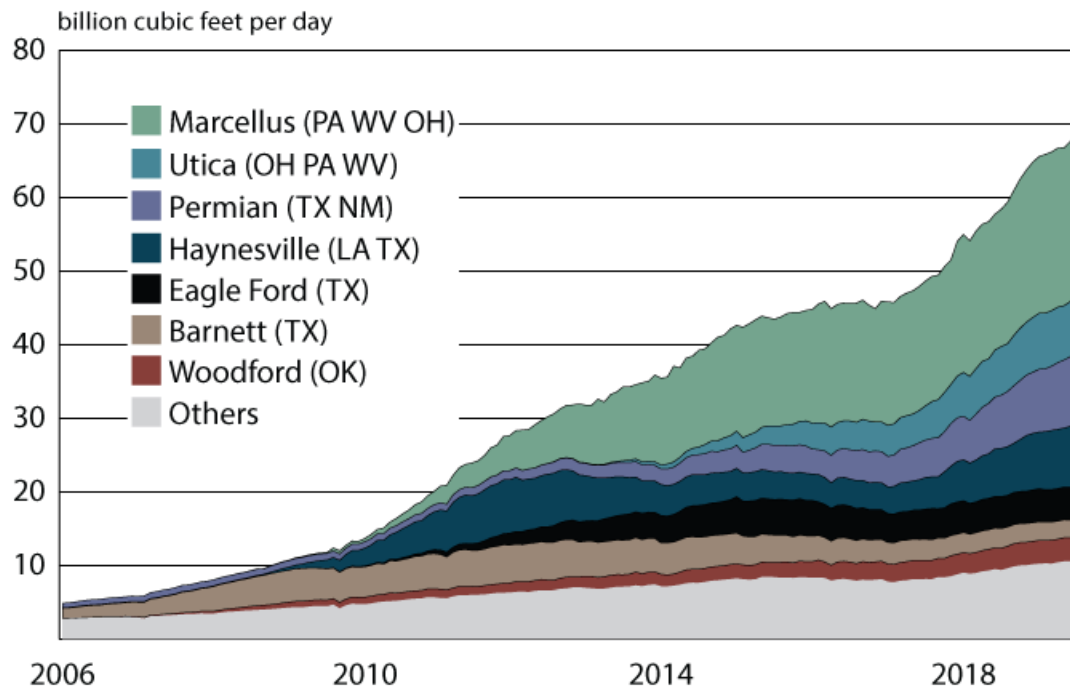
U.S. Natural Gas Production, Consumption, Imports



Source: EIA Annual Energy Outlook - 2019

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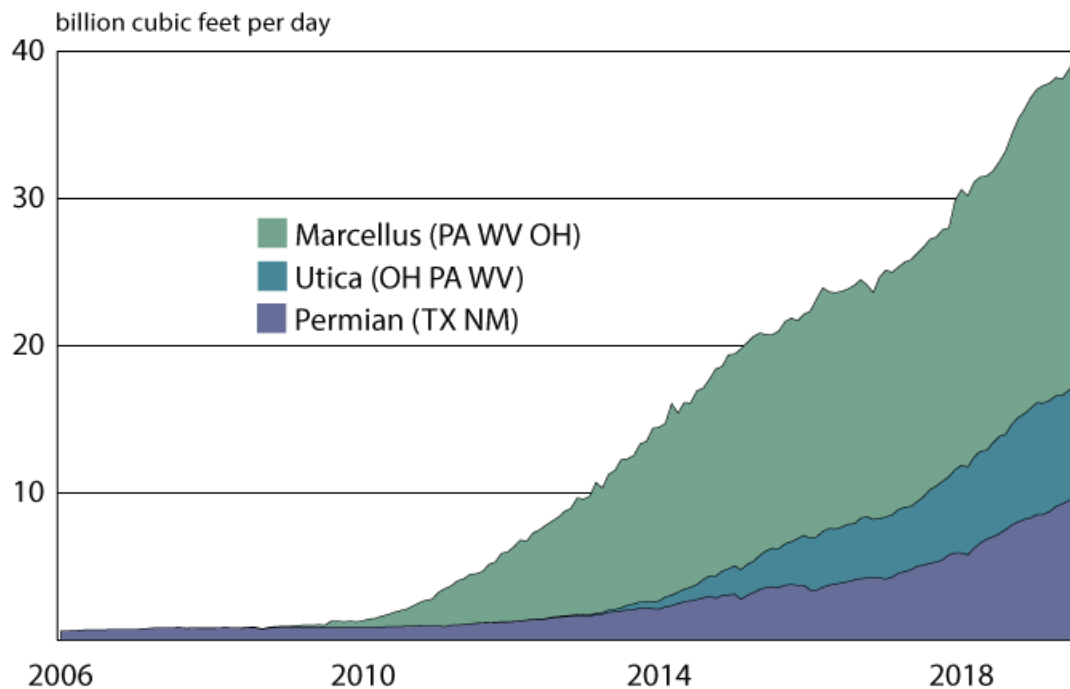
U.S. Dry Shale Gas Production by Basin



Source: EIA Natural Gas Weekly Update (07 Aug. 2019)

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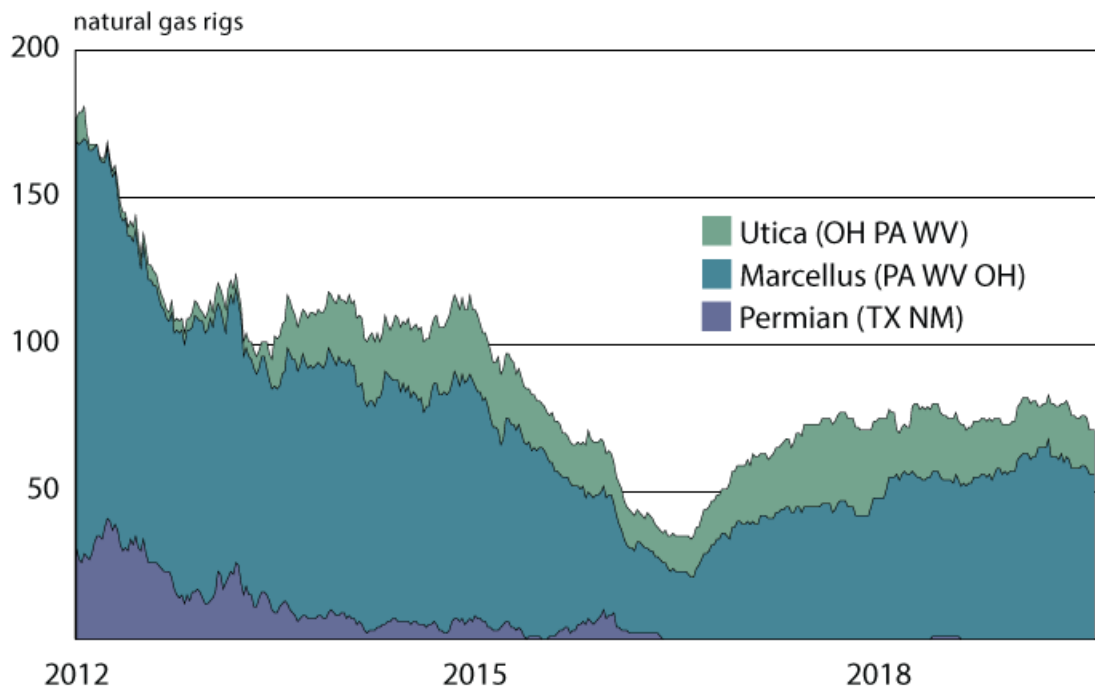
Permian, Utica, Marcellus Shale Gas Production



Source: EIA Natural Gas Weekly Update (07 Aug. 2019)

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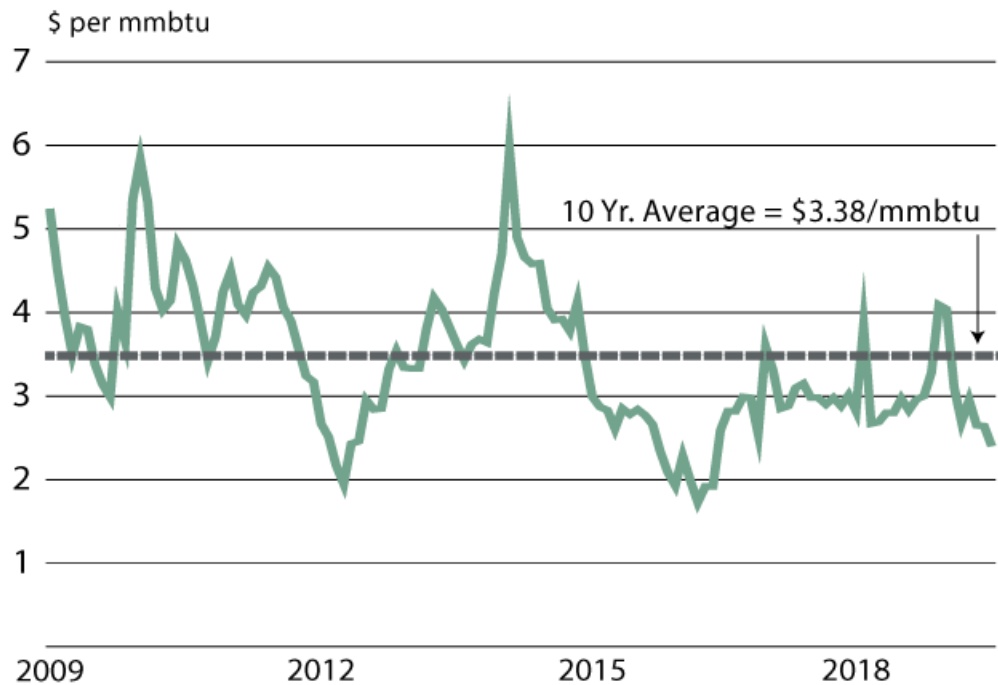
Permian, Utica, Marcellus Weekly Gas Rig Count



Source: Baker Hughes GE (09 Aug. 2019)

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Monthly Henry Hub Spot Prices - Past 10 Years



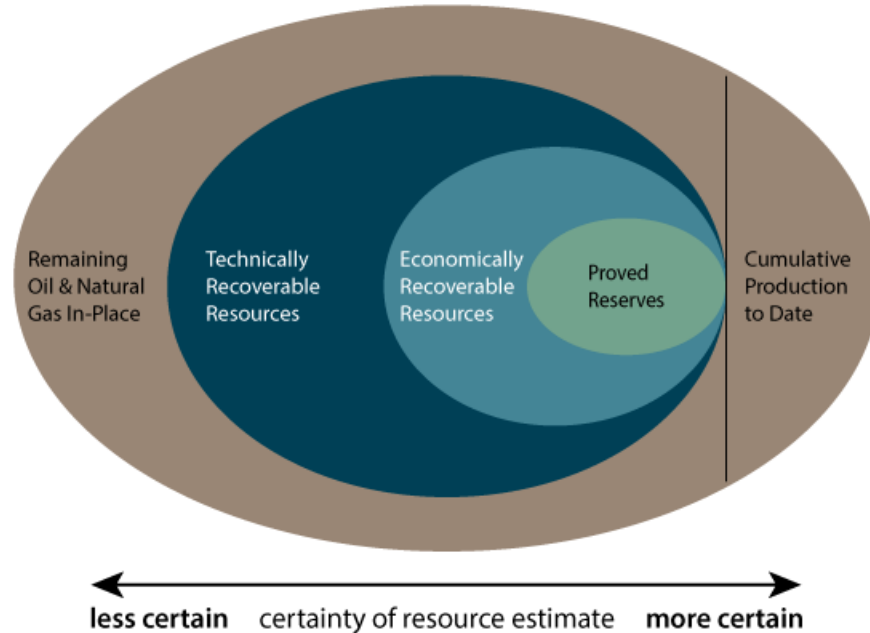
Source: EIA & Thomson Reuters (Data to June 2019)

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Will It (The Shale Revolution) Last?

Oil and Natural Gas Supply Categories

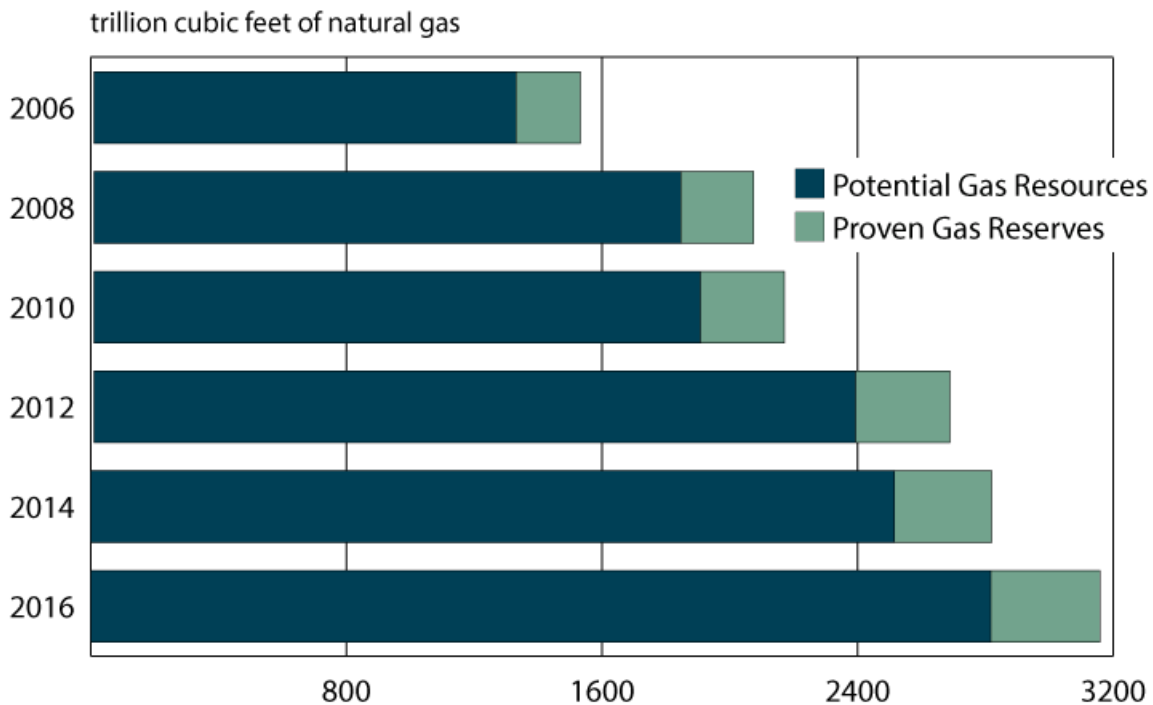
Stylized representation of oil and natural gas categorizations (not to scale)



Source: U.S. Energy Information Administration

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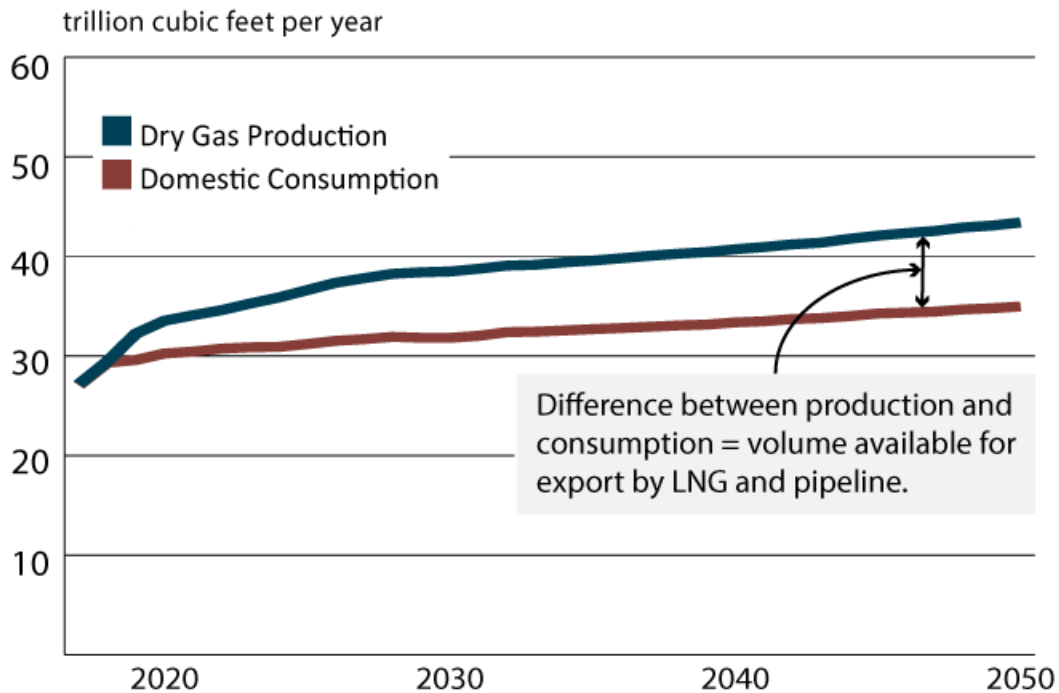
Future U.S. Gas Supply Estimates



Sources: Potential Gas Committee (Resources); EIA (Reserves)

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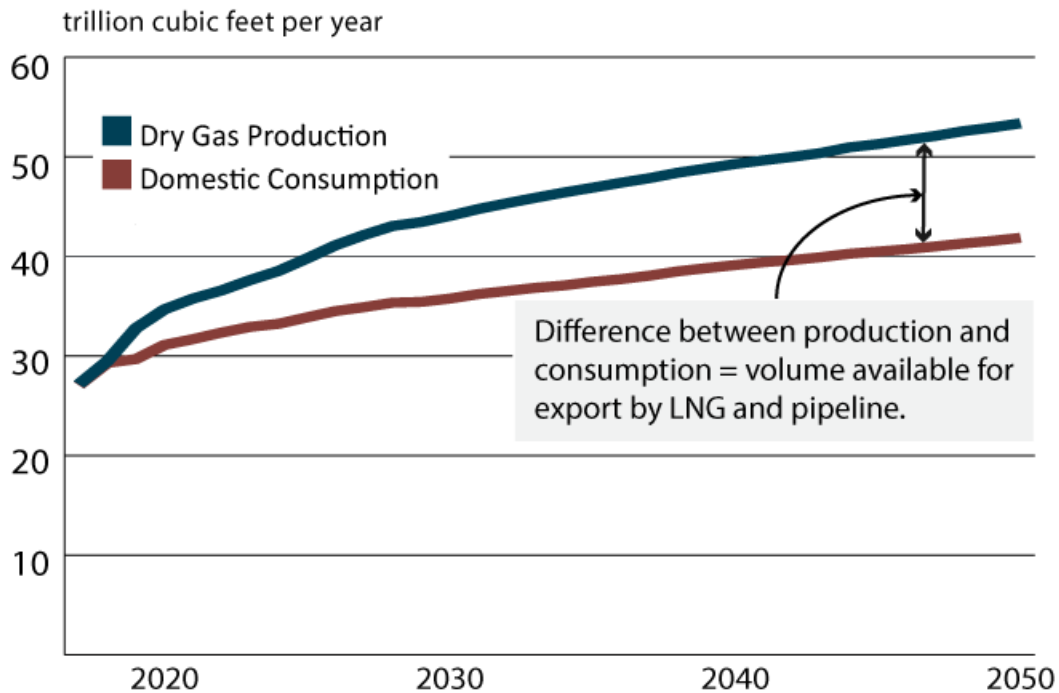
U.S. Natural Gas Production and Consumption



Source: EIA Annual Energy Outlook - 2019 (Reference Case)

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U.S. Natural Gas Production and Consumption

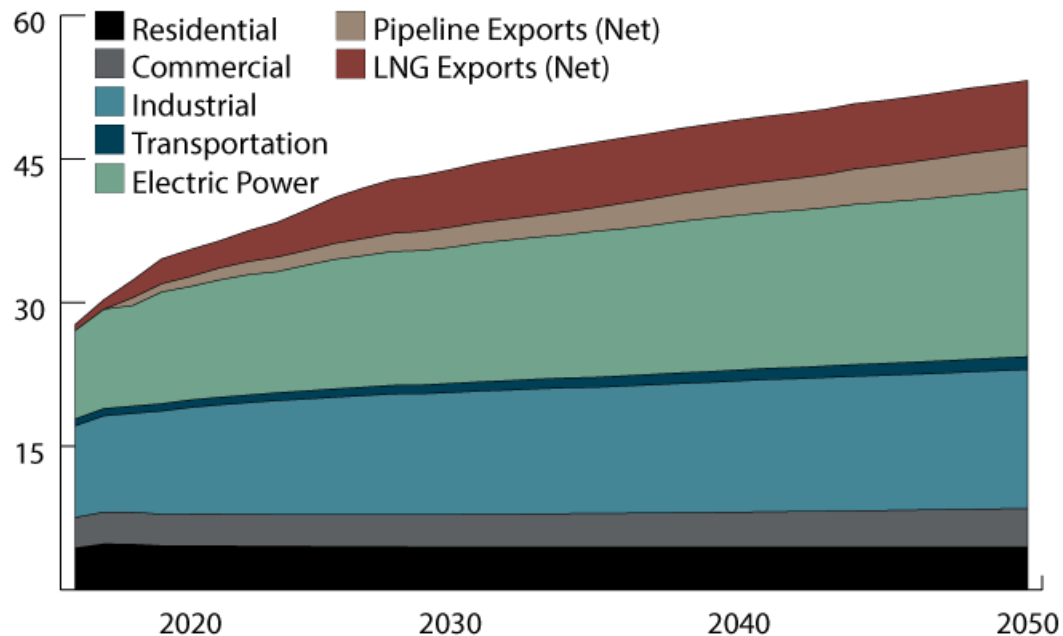


Source: EIA Annual Energy Outlook - 2019 (High Oil & Gas Case)

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U.S. Natural Gas Consumption by Sector

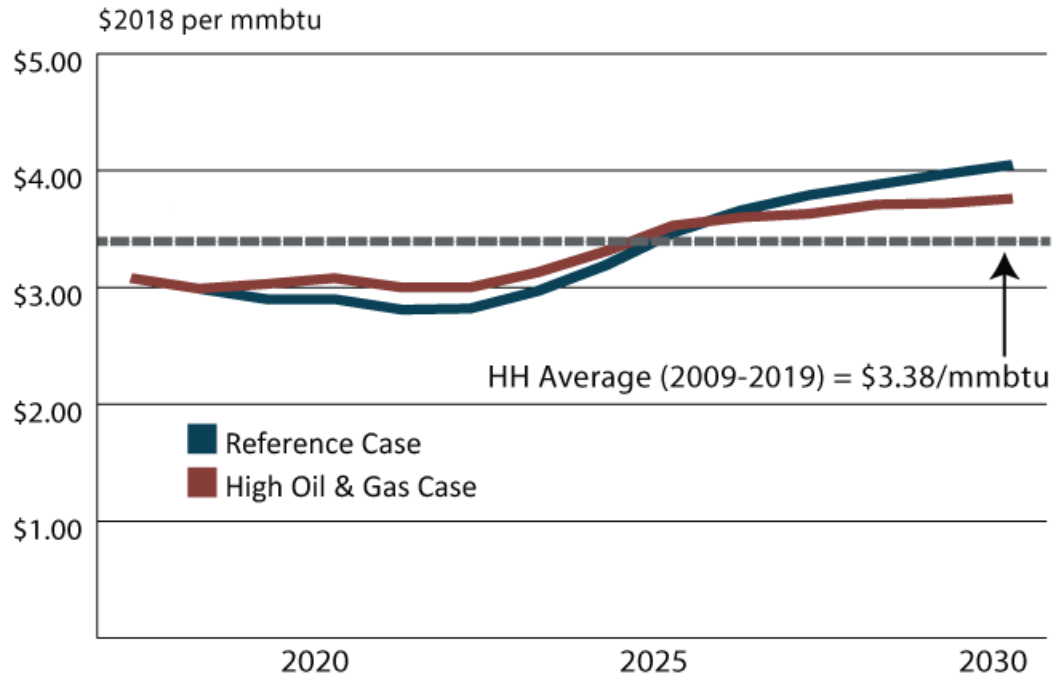
trillion cubic feet per year (tcf/y)



Source: EIA Annual Energy Outlook 2019 (High Oil & Gas Case)

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U.S. Natural Gas Price Forecasts (Henry Hub)



Source: EIA Annual Energy Outlook - 2019

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U.S. LNG Export Industry

U.S. LNG Export Industry

- Eight major brownfield (import) terminals adding/planning liquefaction capabilities
- Another 20+ greenfield projects proposed
- Midstream players and special purpose entities; IOCs mostly offtakers not project sponsors (XOM, Total, minority owners)

Permitting Status of U.S. LNG Export Projects

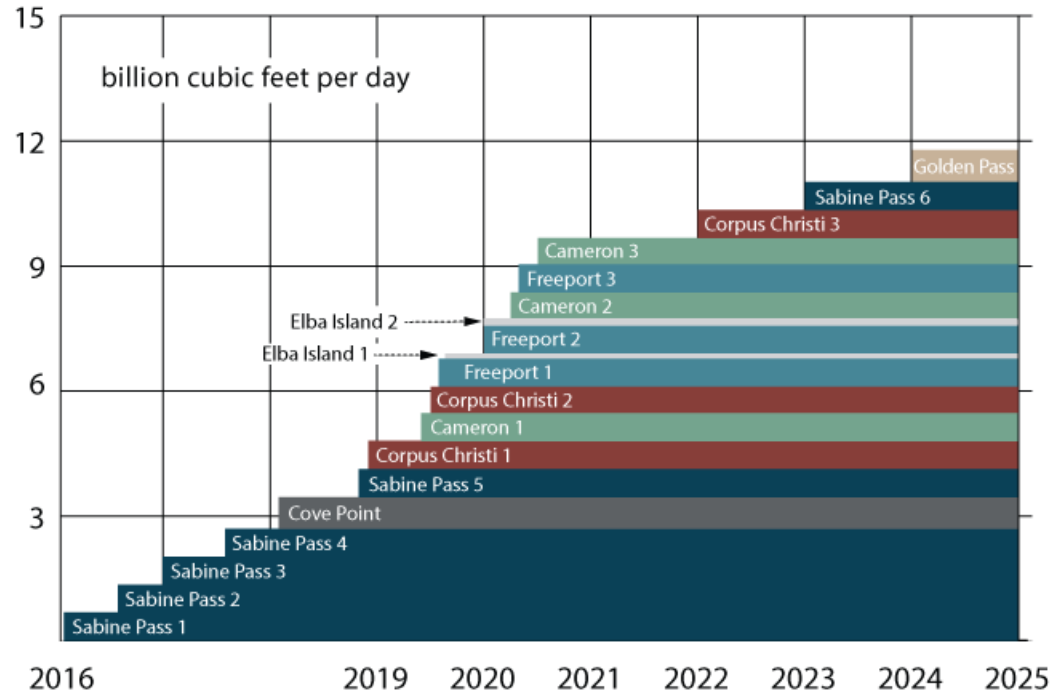
Project Stage	Projects	mtpa	bcm/yr	bcf/day
Permitted & Under Construction	7	97.9	130.0	12.9
Permitted Pre-FID (> 1 mtpa)	7	111.5	153.8	14.7
Permitted Pre-FID (< 1 mtpa)	2	9.0	12.4	1.3
Formal FERC Review	7	96.6	133.3	12.7
FERC Pre-Filing	5	70.0	96.1	9.2
Total	29	376.0	518.1	49.5

Notes: (1) Projects = individual projects. (2) Additional trains for existing projects not included in the project count, but in the mtpa, bcm/year, and bcf/day totals (Sabine Pass #6, Cameron #4 #5, Freeport #4, Port Arthur #3 #4).

Source: Federal Energy Regulatory Commission & LNG Allies (03 Aug. 2019)

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U.S. LNG Liquefaction Capacity Growth

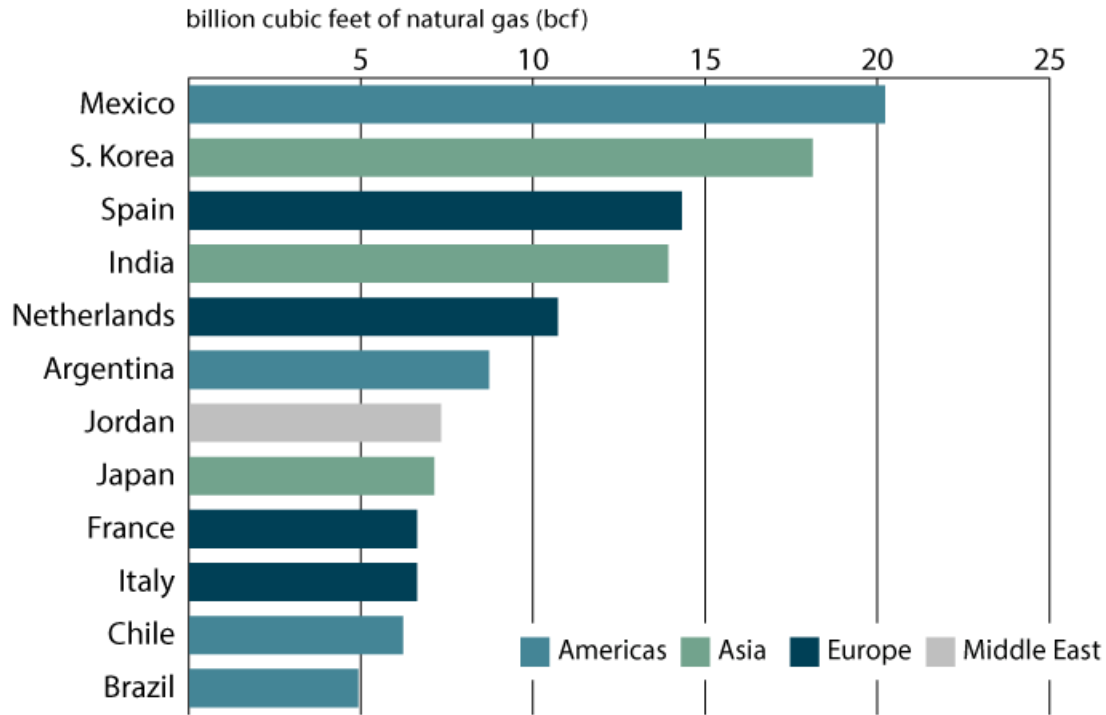


Source: EIA and LNG Allies (14 June 2019)

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U.S. LNG Exports

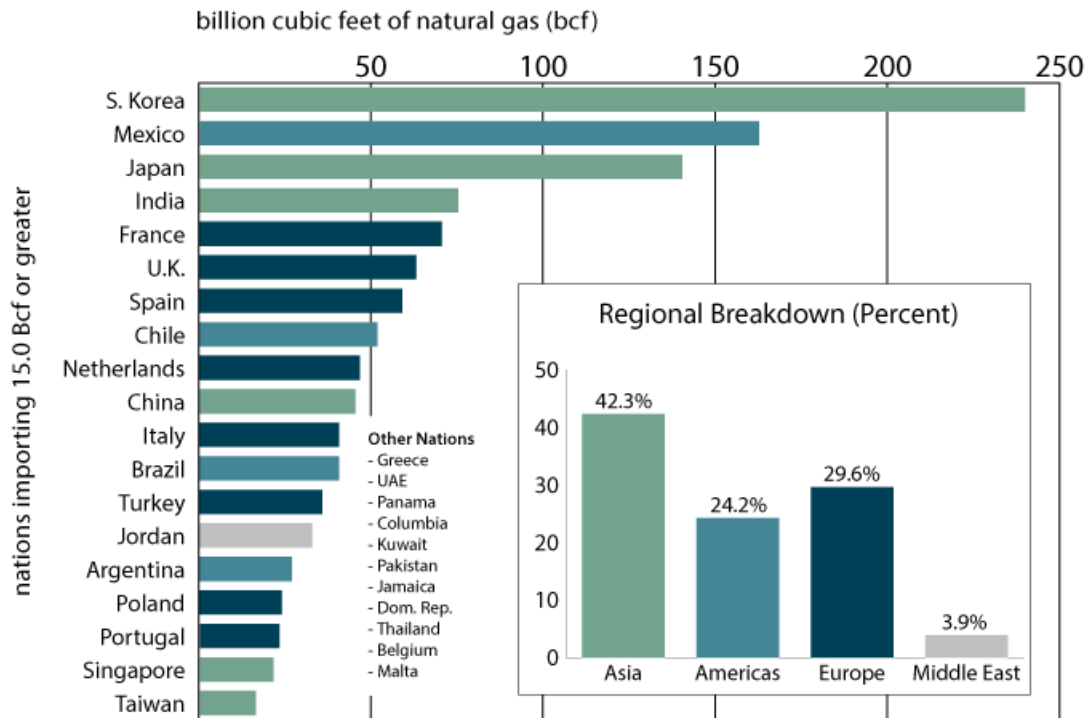
Top 12 U.S. LNG Export Destinations - May 2019



Source: DOE LNG Monthly (Data through May 2019)

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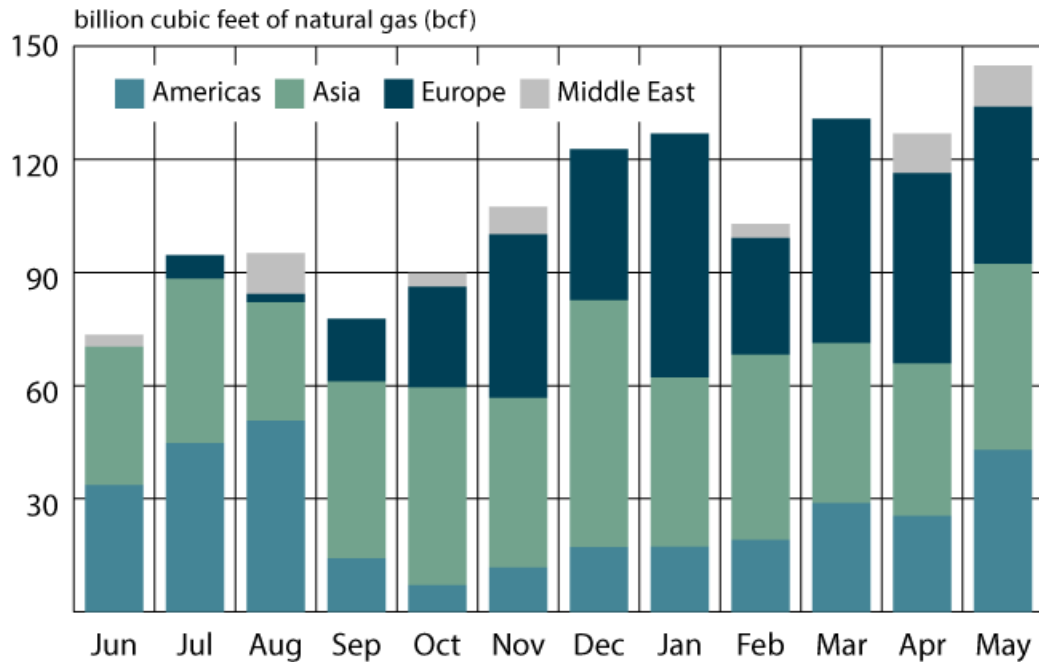
U.S. LNG Destinations in Past 12 Months



Source: DOE LNG Monthly (Data through May 2019)

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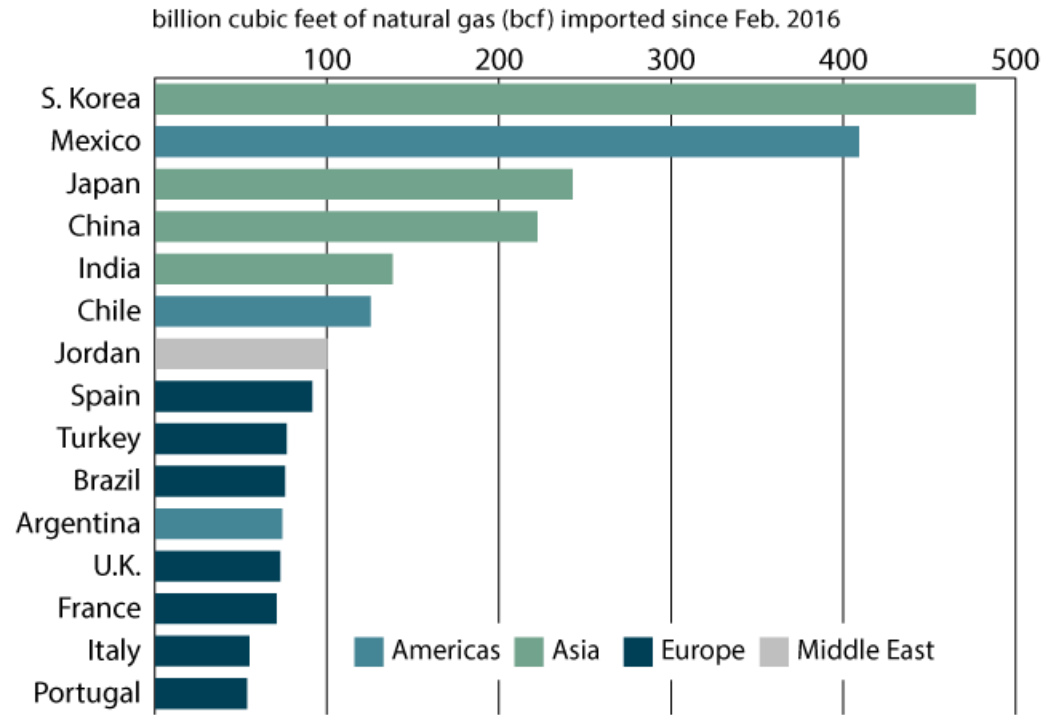
Regional Distribution of U.S. LNG - Past 12 Months



Source: DOE LNG Monthly (Data through May 2019)

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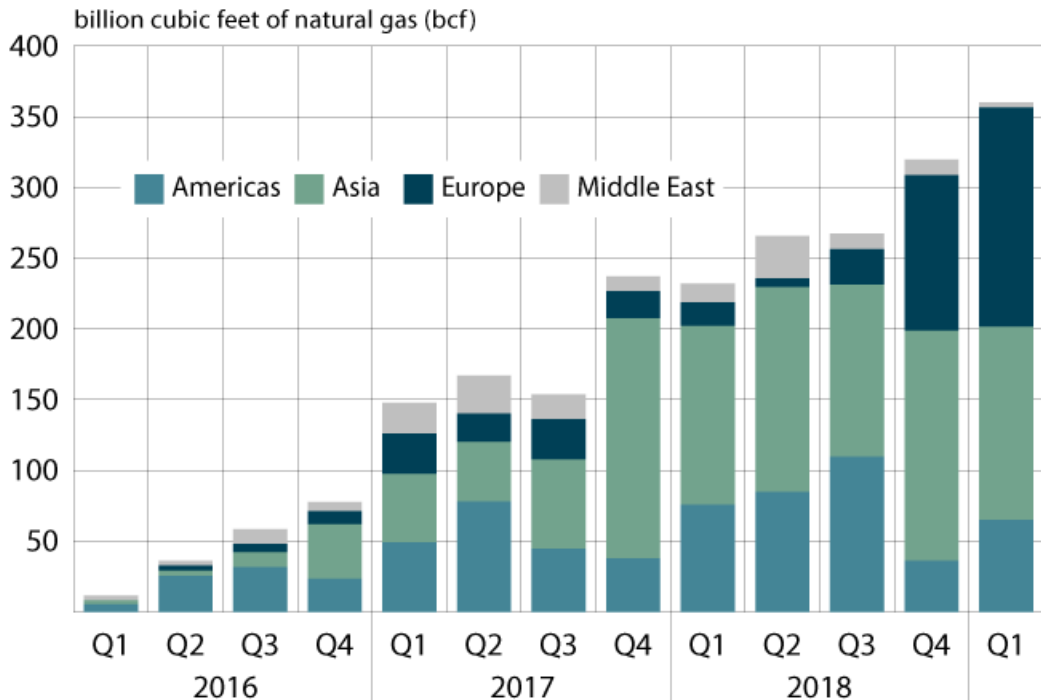
Top 15 Importers of U.S. LNG



Source: DOE LNG Monthly (Data through May 2019)

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Regional Distribution of U.S. LNG - Past 3 Years



Source: DOE LNG Monthly (Data through March 2019)

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