



THE INTERNATIONAL
ASSOCIATION FOR
NATURAL GAS



SUMMARY

Natural Gas In The World – 2018 Edition

CEDIGAZ, November 2018

SUMMARY

Main 2017 Trends

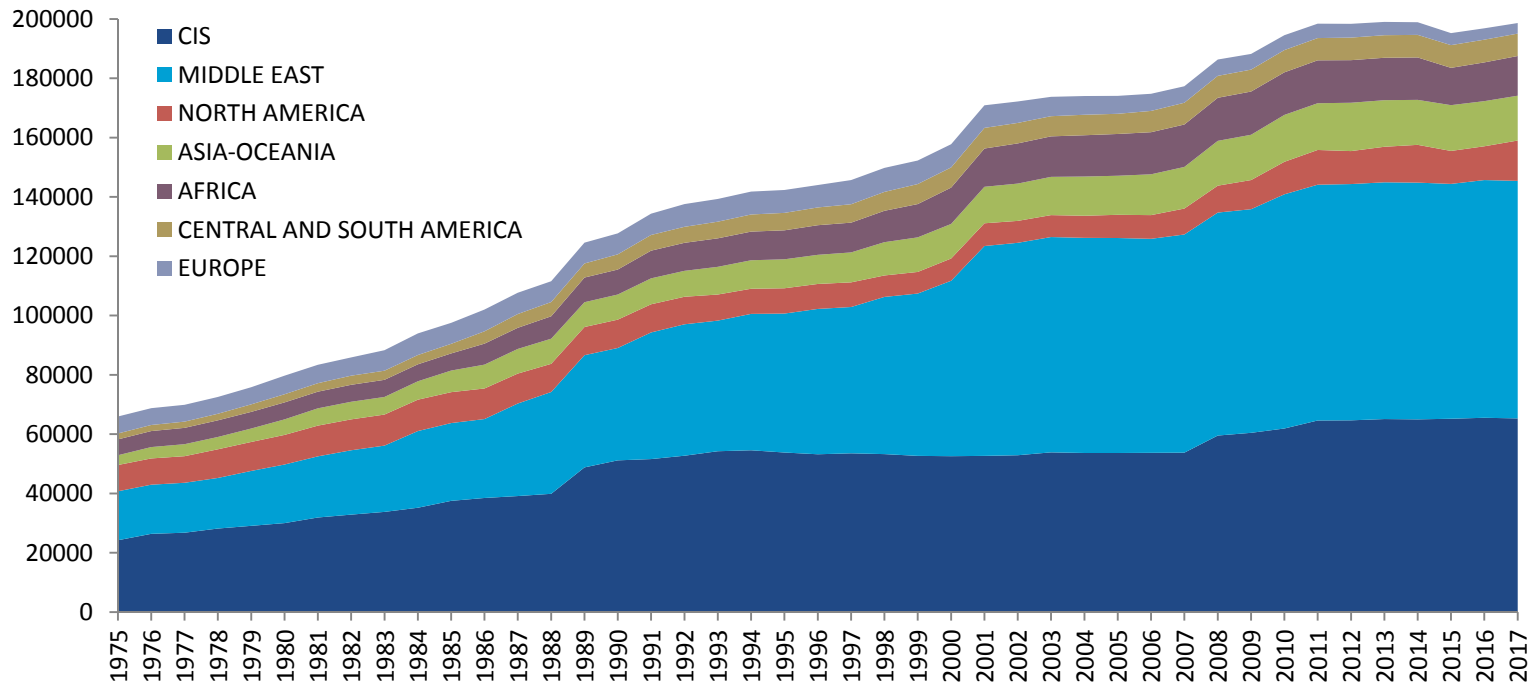


- Worldwide proven natural gas reserves grew by 0.9% year-on-year to 198,642 bcm as of December 31, 2017 (+1815 bcm). The main gain was recorded in North America (2,184 bcm /+ 1.2%) under the impetus of the United States.
- Worldwide marketed natural gas production rose 4% to 3667 bcm (+ 141 bcm) in 2017, more than double the five-year average. This represents a sharp rebound after the modest 0.5% growth in 2016 and also the fastest growth since the post-crisis production recovery of 2010 (+ 8%). Out of the seven regions of Cedigaz's regional breakdown, the CIS posted the largest gain (+ 52 bcm), followed by Asia-Oceania, the Middle East and Africa.
- On the world level, the utilization rate of gross production increased to more than 87% in 2017, against 86% in 2010 and 85% in 2005. Global flaring and venting declined significantly, down 5% to 129 bcm in 2017, according to CEDIGAZ estimates.
- Excluding LNG re-exports, international trade rose 8.6% to 1199 bcm, well above the five year average (+ 3.3%/year).
- 2017 experienced the strongest growth (+ 10.5%) in LNG supply since 2010. Pipeline trade rose 7.7% to 816.5 bcm.
- In 2017, world actual natural gas consumption (including storage variations) increased at a rate of 3.5% to 3667 bcm, double the five-year average growth rate. By region, Asia-Oceania accounted for the largest increment in gas consumption (+ 42 bcm), followed by the Middle East (+ 27 bcm) and then Europe (+ 25 bcm). At the national level, China led the growth, with consumption surging 15% (+ 31 bcm). This trend illustrates the ongoing policy-driven transformation of the country's energy mix away from coal to cleaner fuels, including renewables and gas.
- International gas prices, whether or not indexed to the oil price, have risen during 2017. This upward trend was driven by an increase in oil and coal prices, up by 25% and 40% in 2017.

NATURAL GAS IN THE WORLD – 2018 EDITION

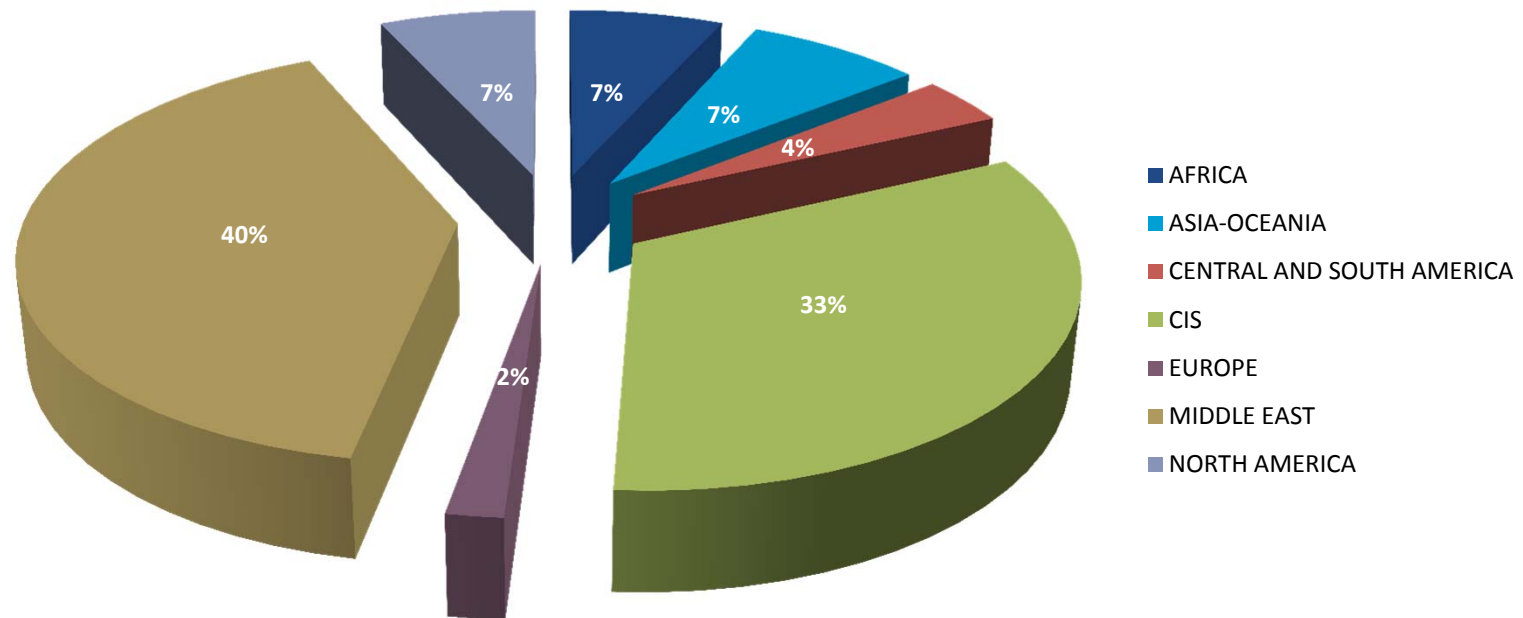
- **NATURAL GAS RESERVES IN THE WORLD**
- **NATURAL GAS PRODUCTION IN THE WORLD**
- **INTERNATIONAL NATURAL GAS TRADE**
- **NATURAL GAS CONSUMPTION IN THE WORLD**
- **INTERNATIONAL GAS PRICES**

Proved Reserves* by Region

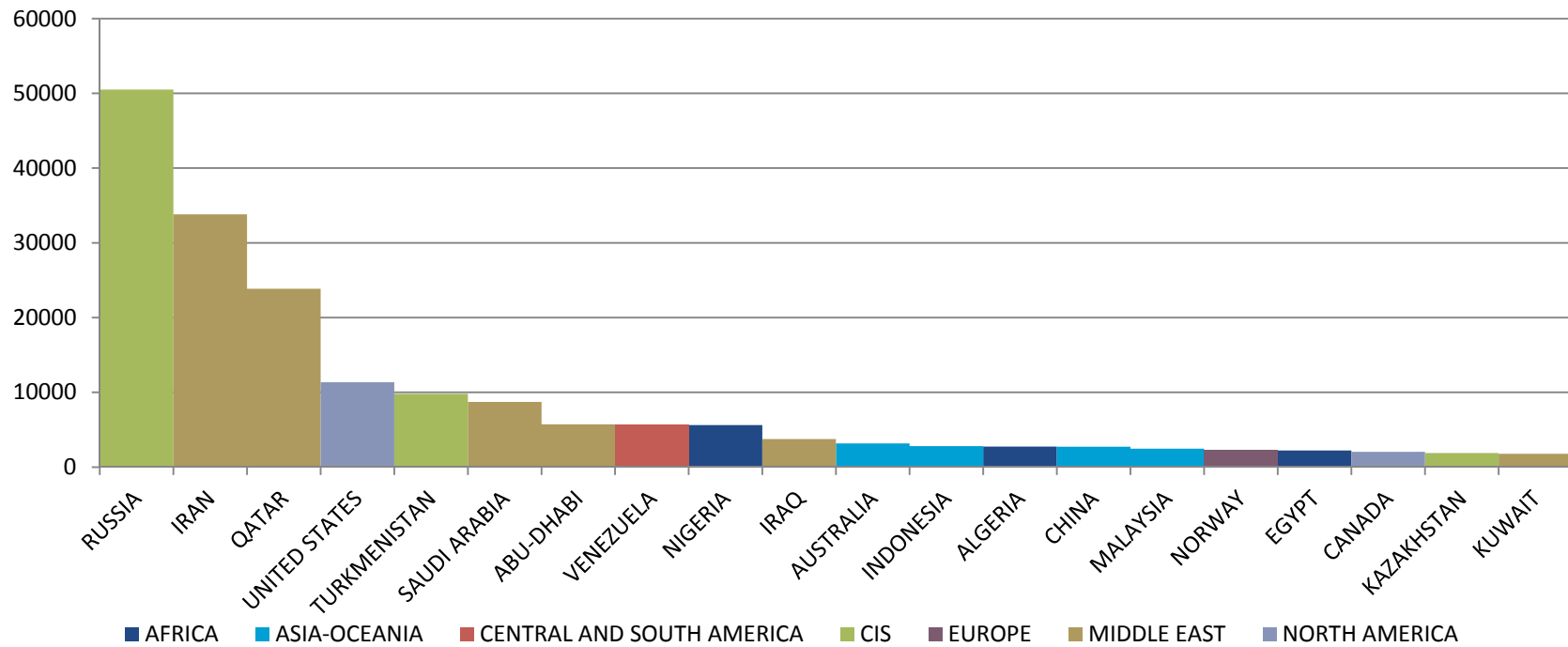


* Unless specified, all data in this report are expressed in billion standard cubic meters.

Regional Share of Proved Natural Gas Reserves



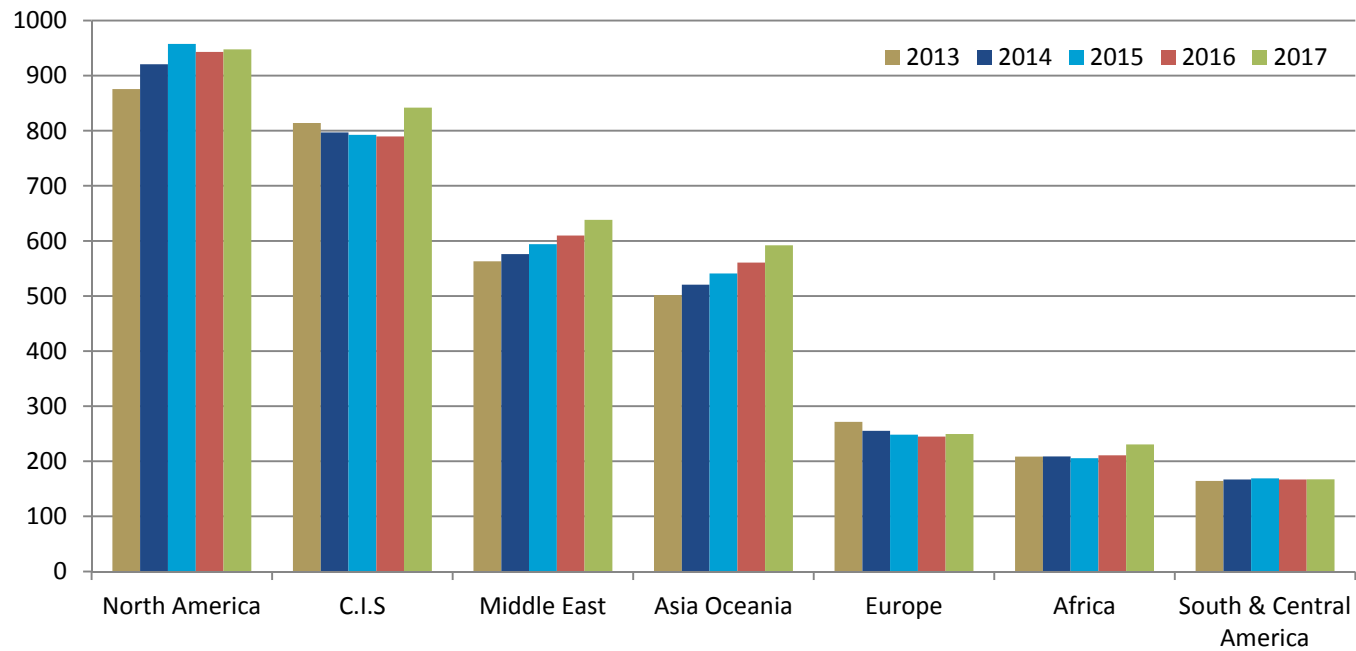
Proved reserves (20 largest reserves holders)



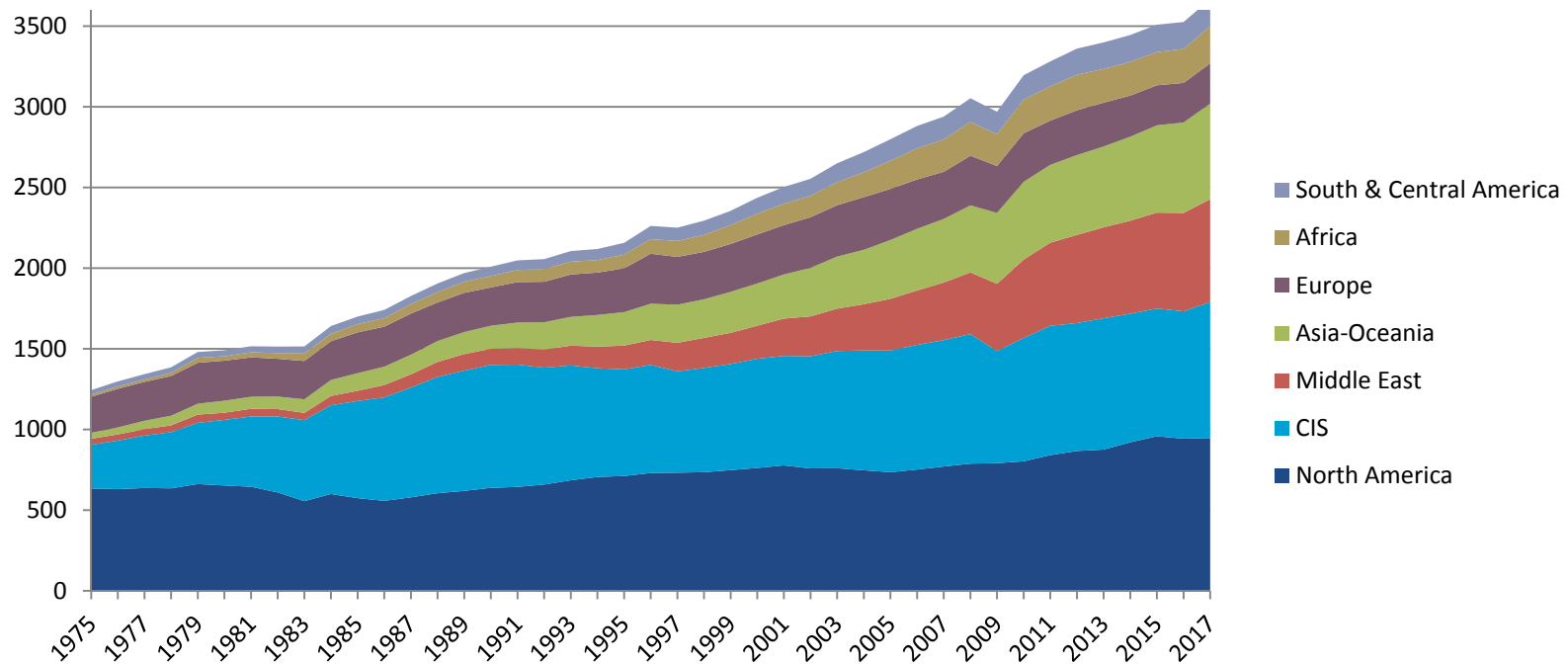
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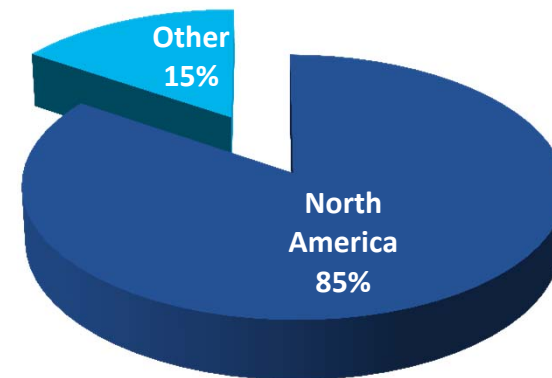
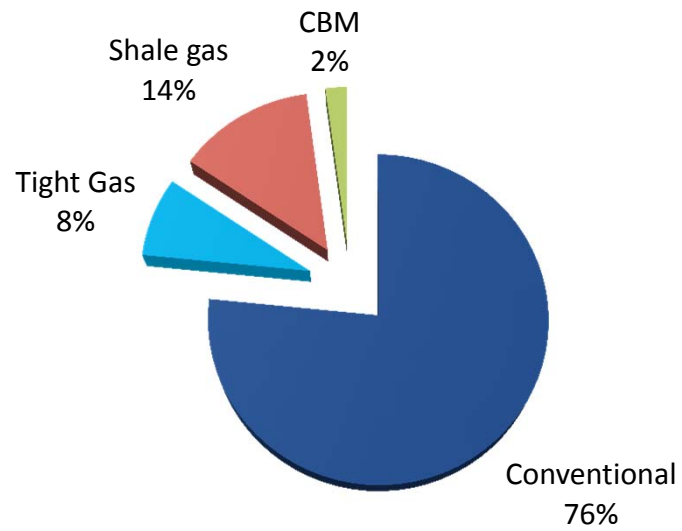
Recent trends in marketed gas production by region



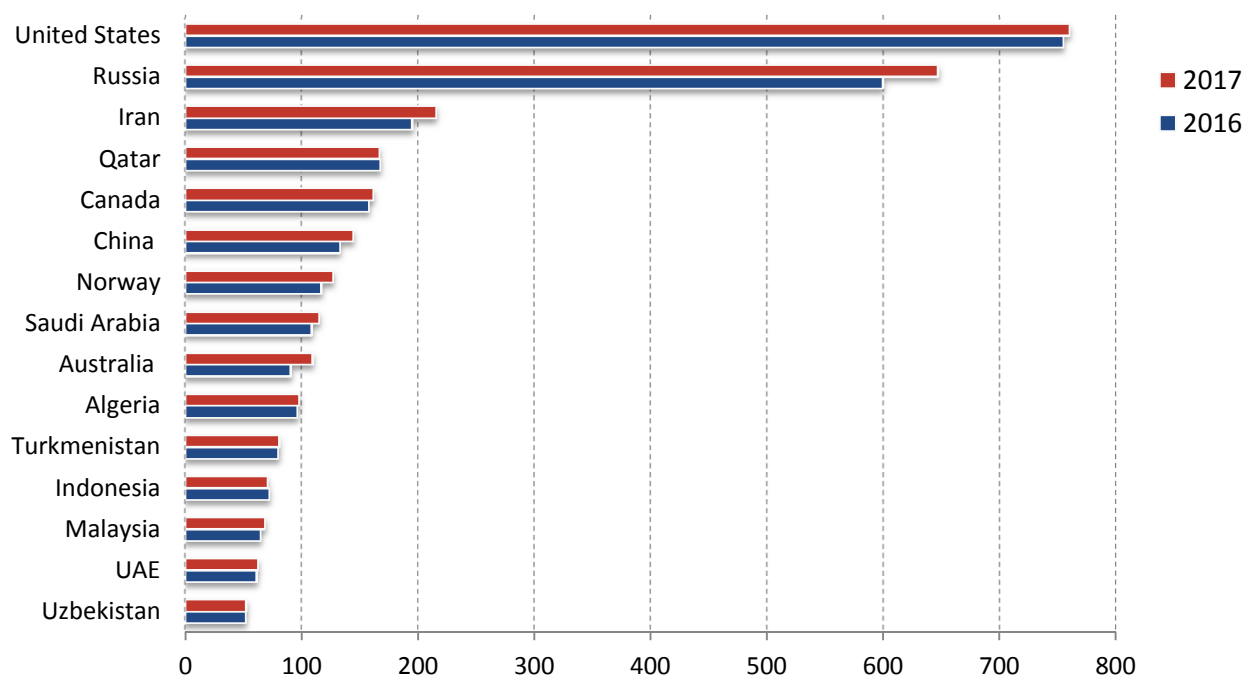
Evolution of marketed production by geographic zone



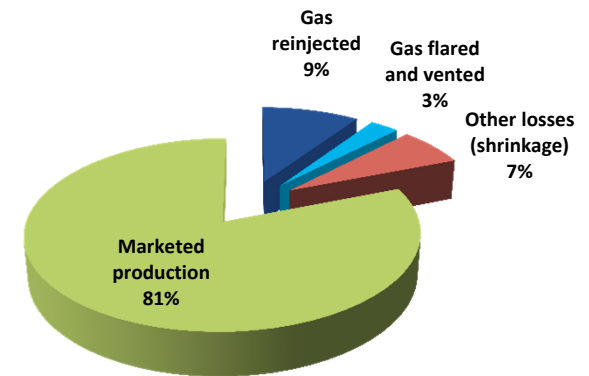
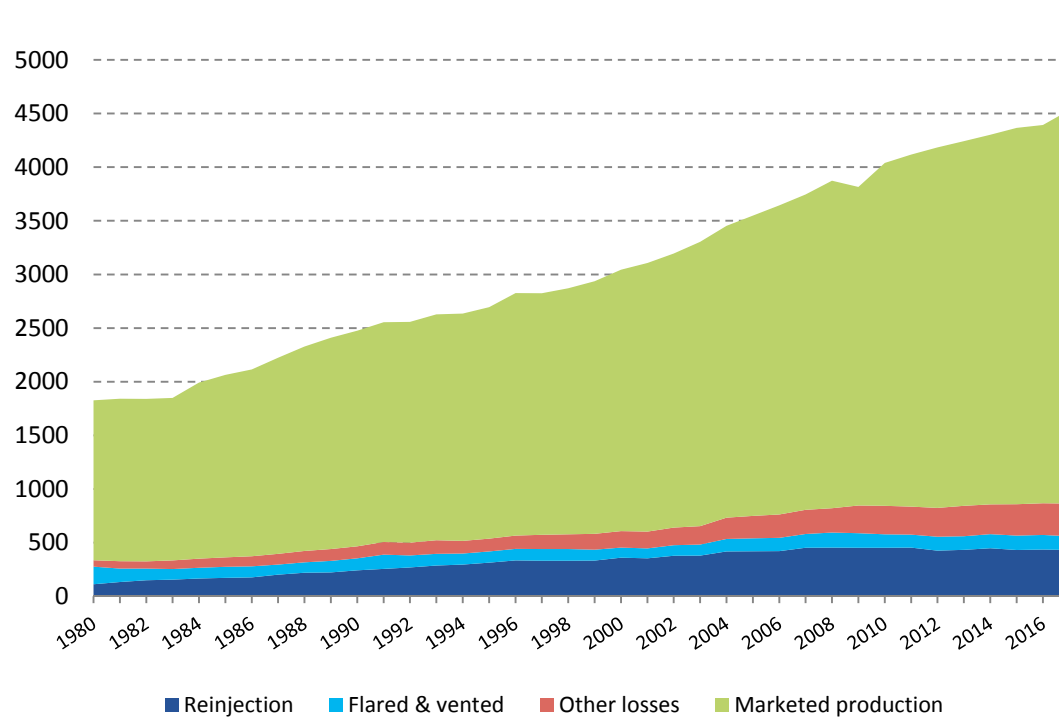
Unconventional gas production in the World



Marketed production by country Top-15 producing countries



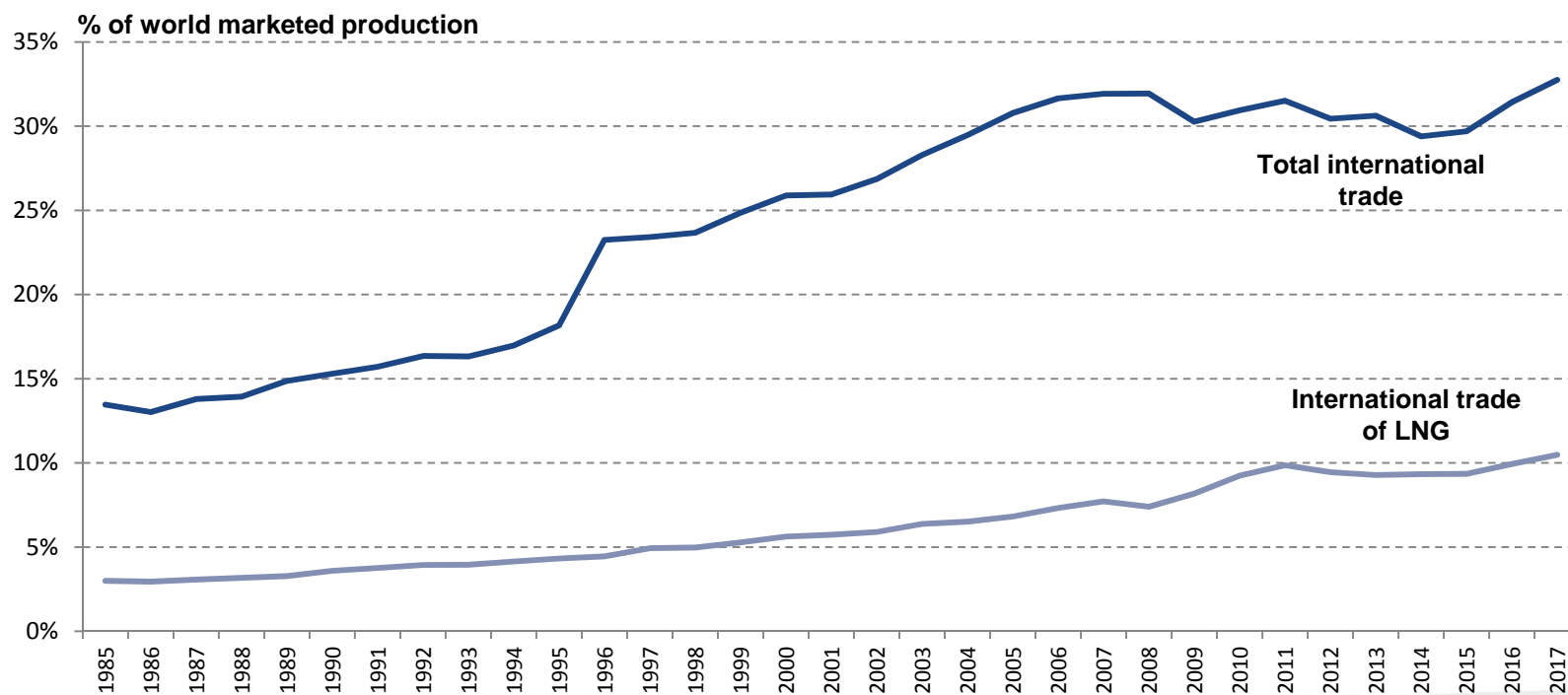
Evolution of the world balance of gas production



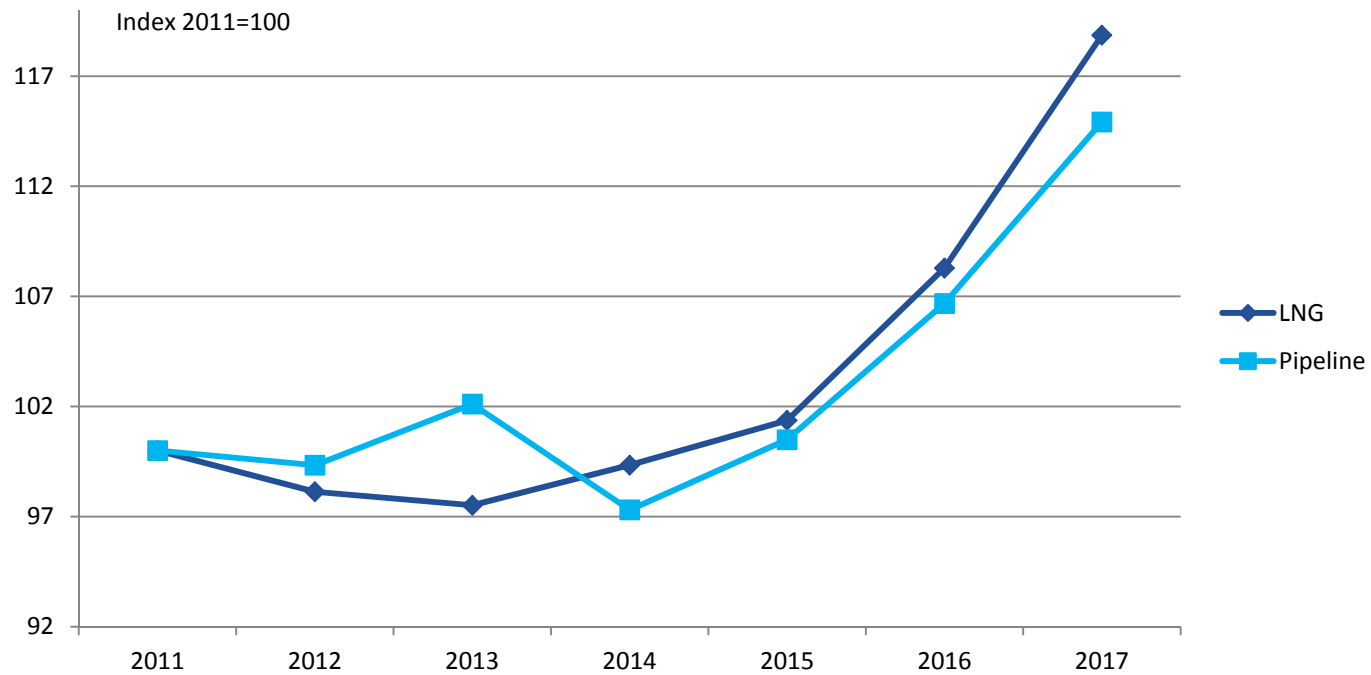
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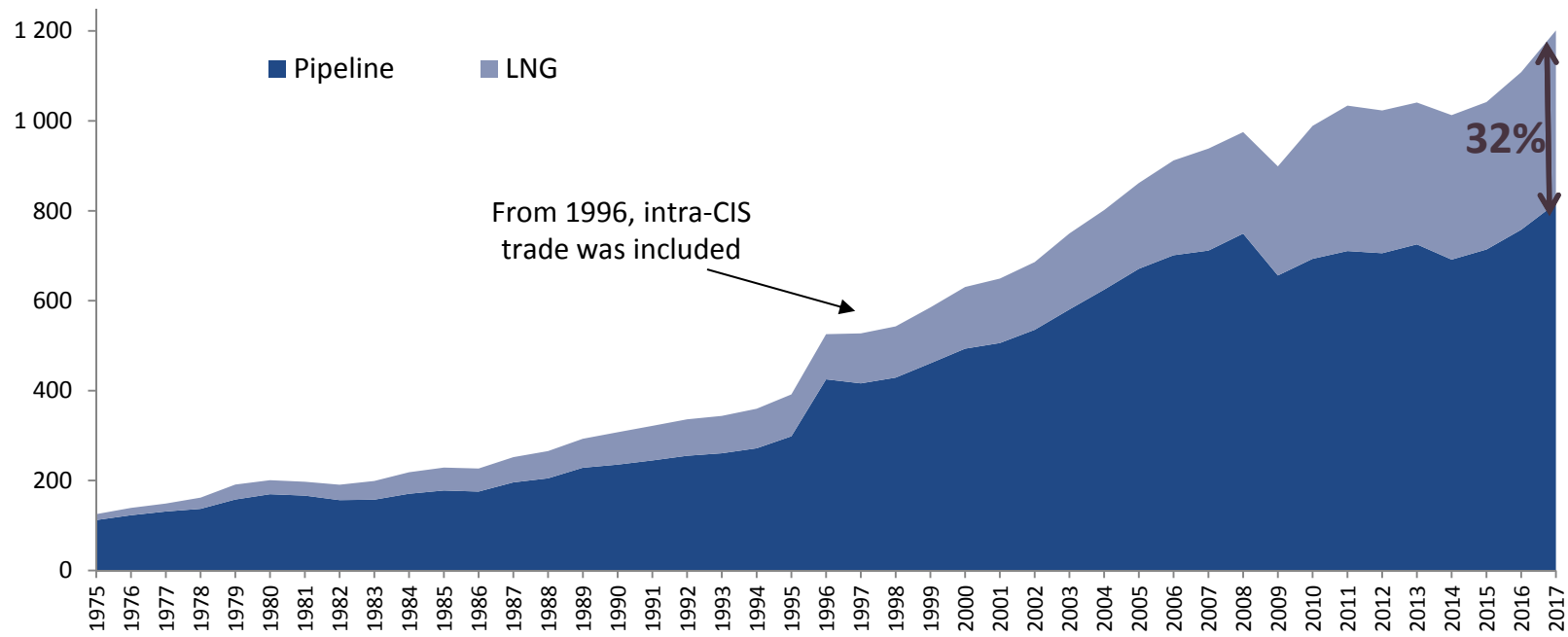
Share of international gas trade in world production



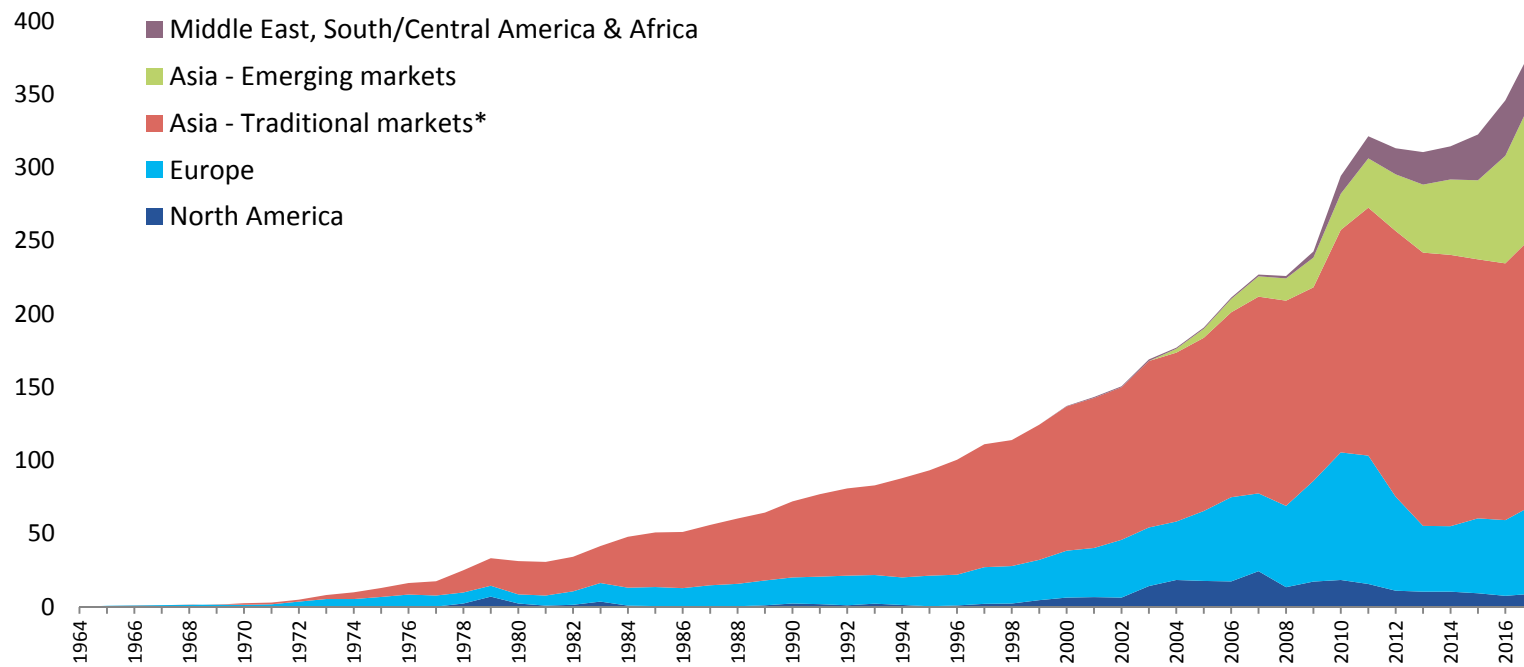
Recent trends in international gas trade



Evolution of international gas trade Pipeline versus LNG

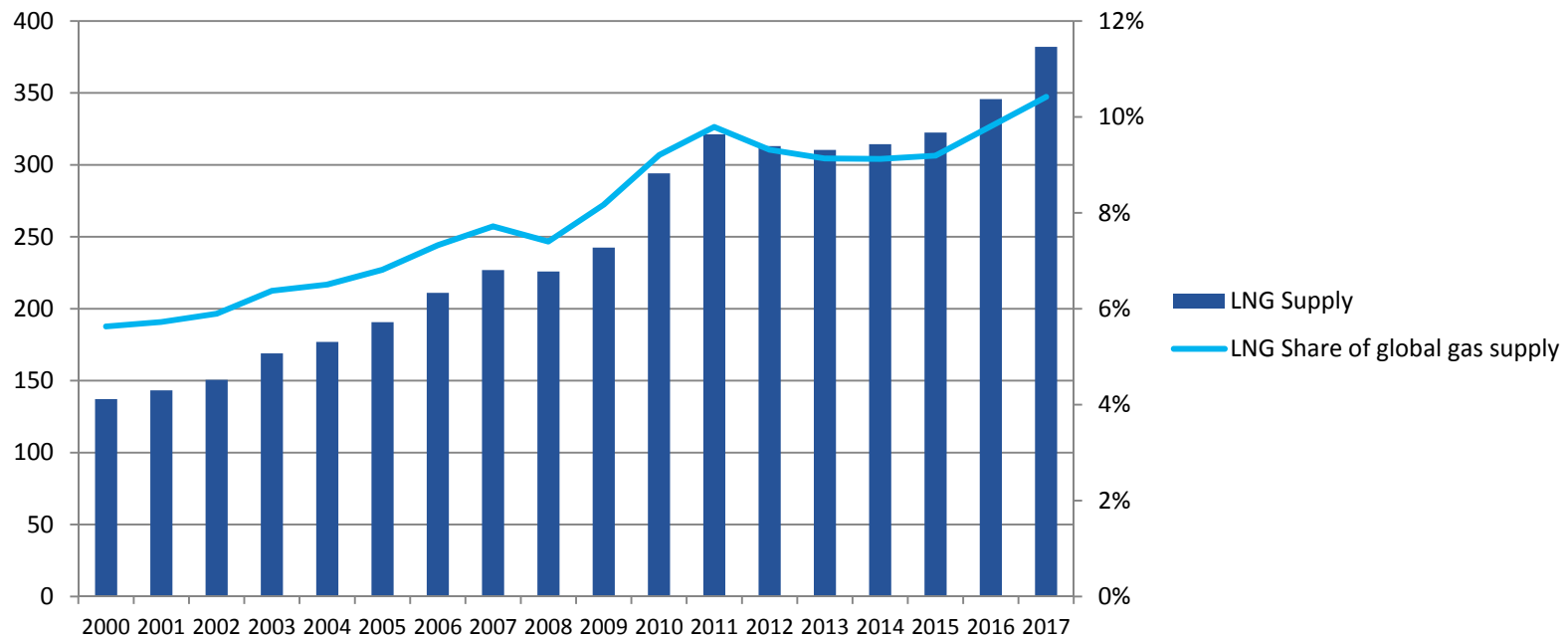


Evolution of international net LNG imports



* Japan, South Korea & Taiwan

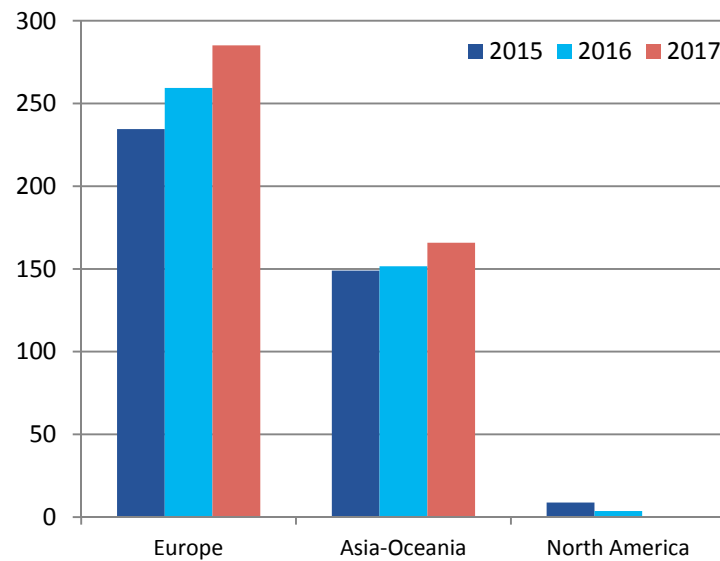
Evolution of international LNG supply



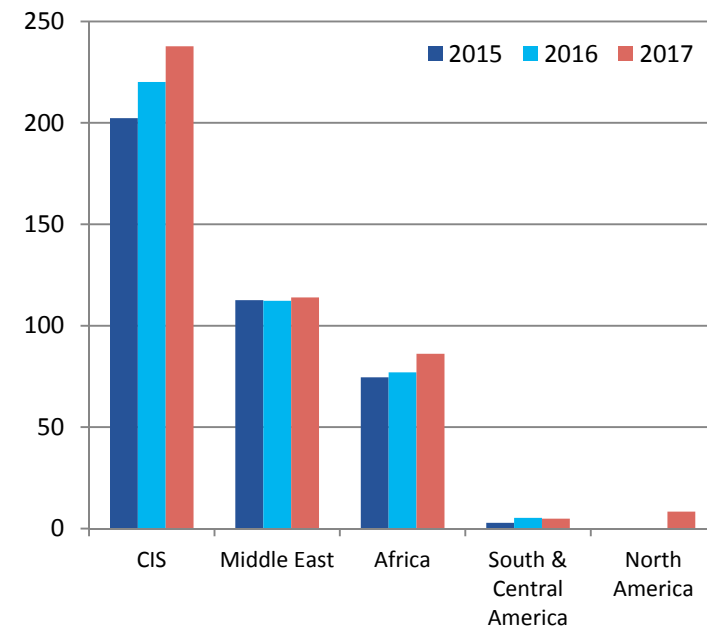
Recent trends in interregional trade



NET IMPORTS

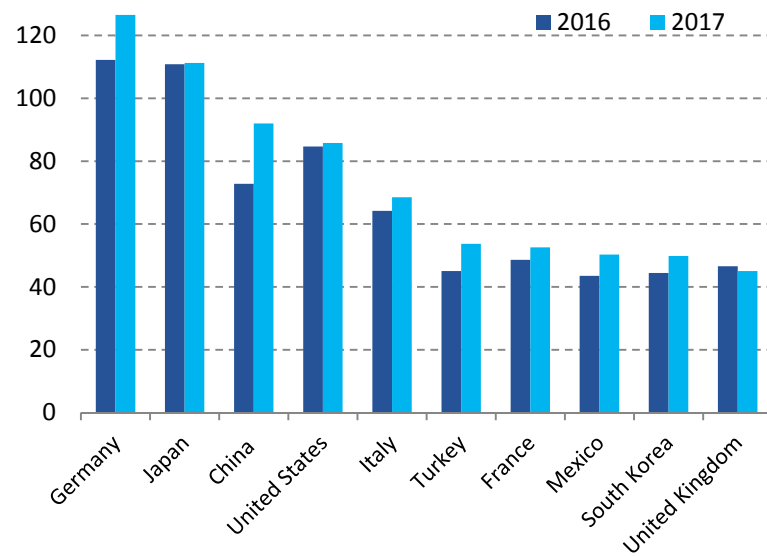


NET EXPORTS

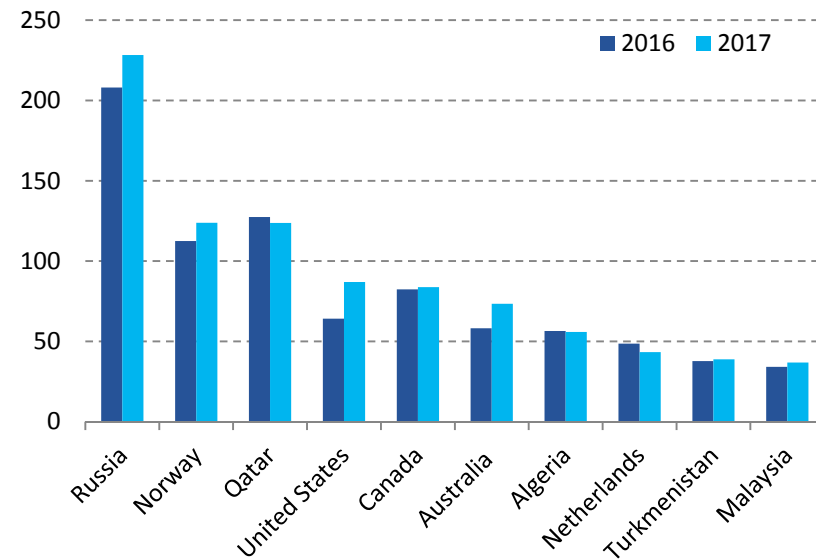


International natural gas flows by main country

Top-10 net gas Importers



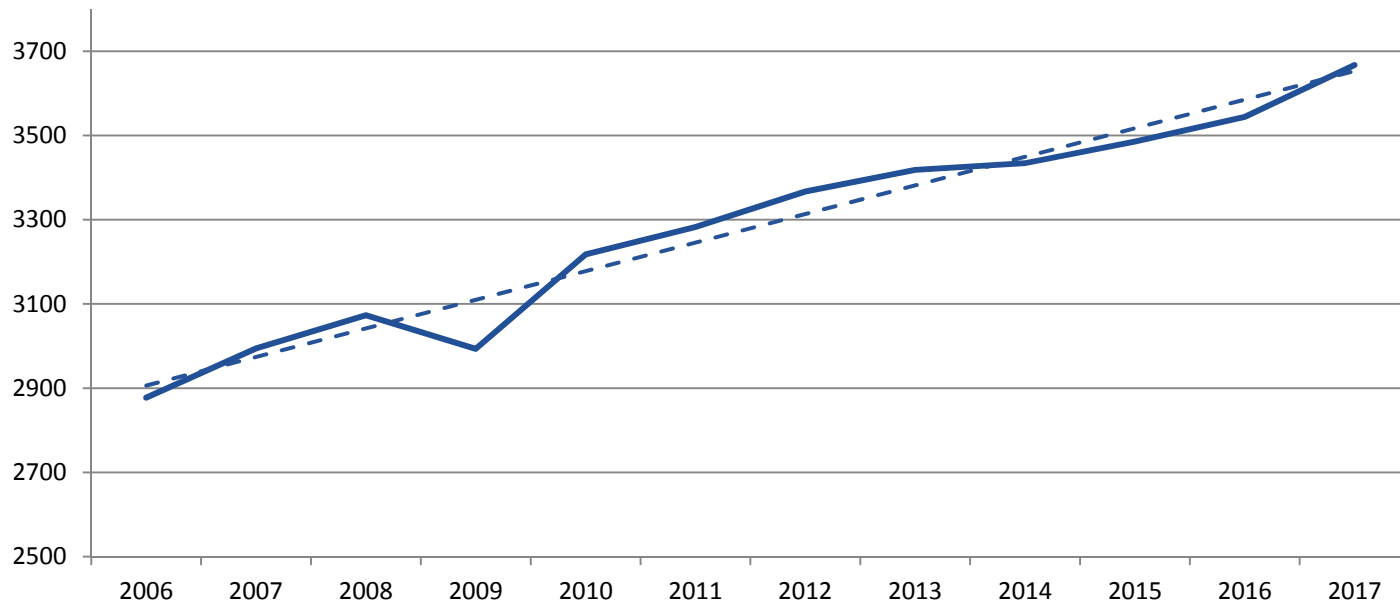
Top-10 Exporters



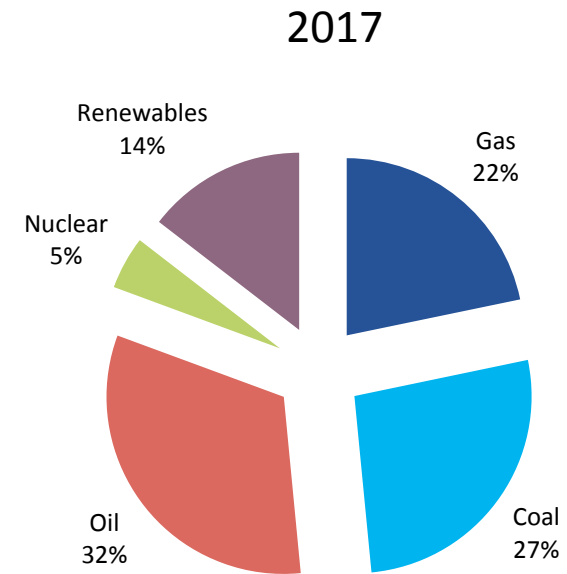
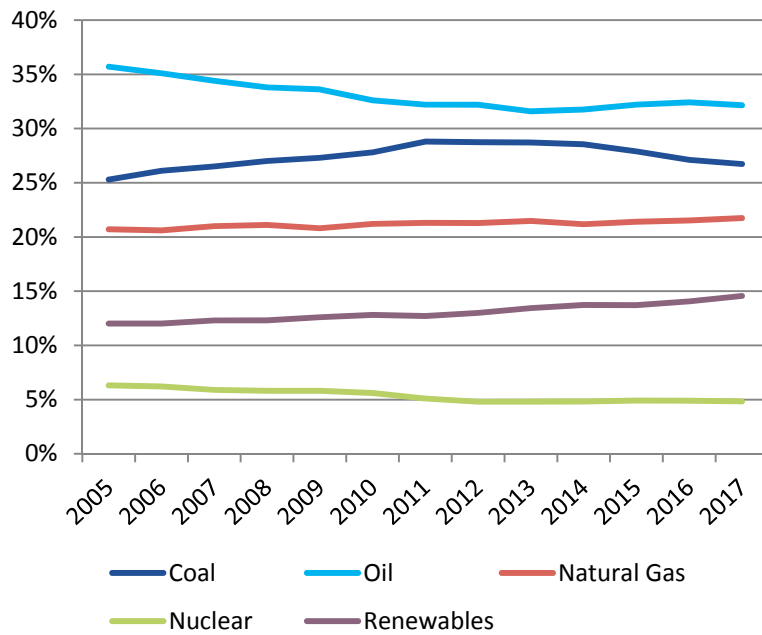
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Historic evolution of world gas consumption

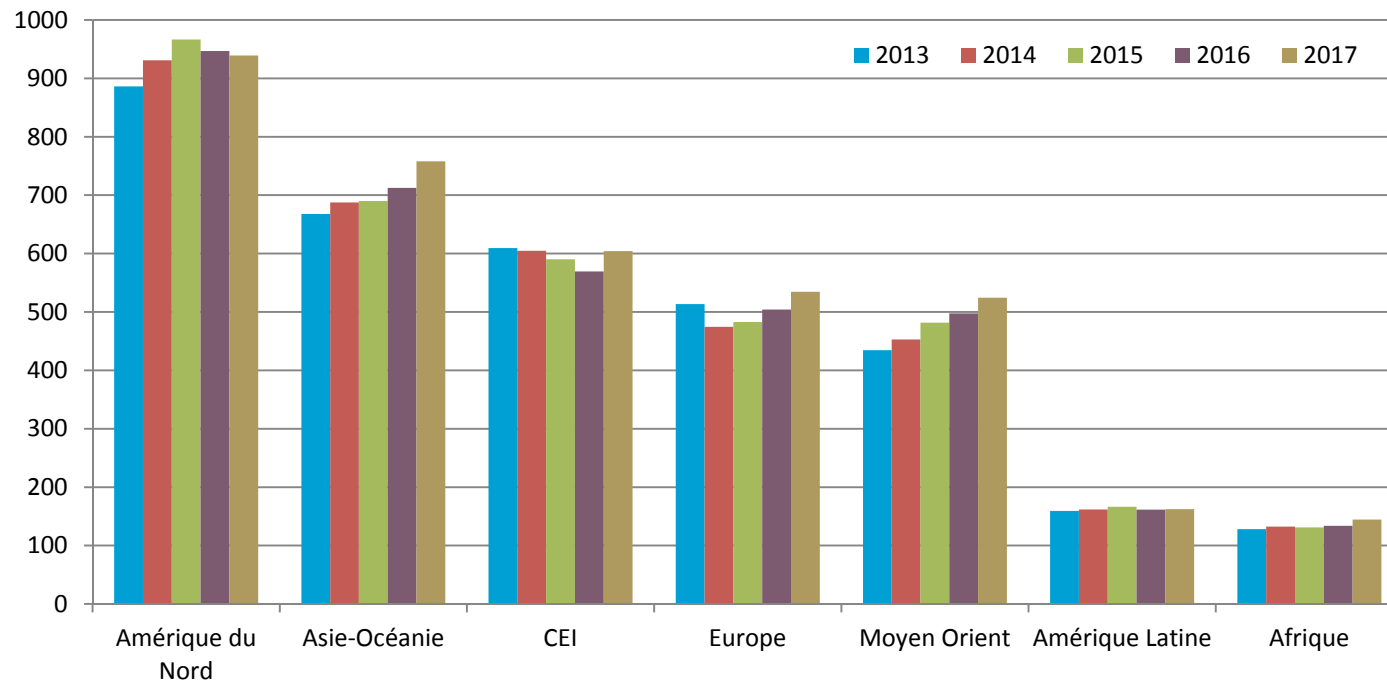


Evolution of the world energy mix

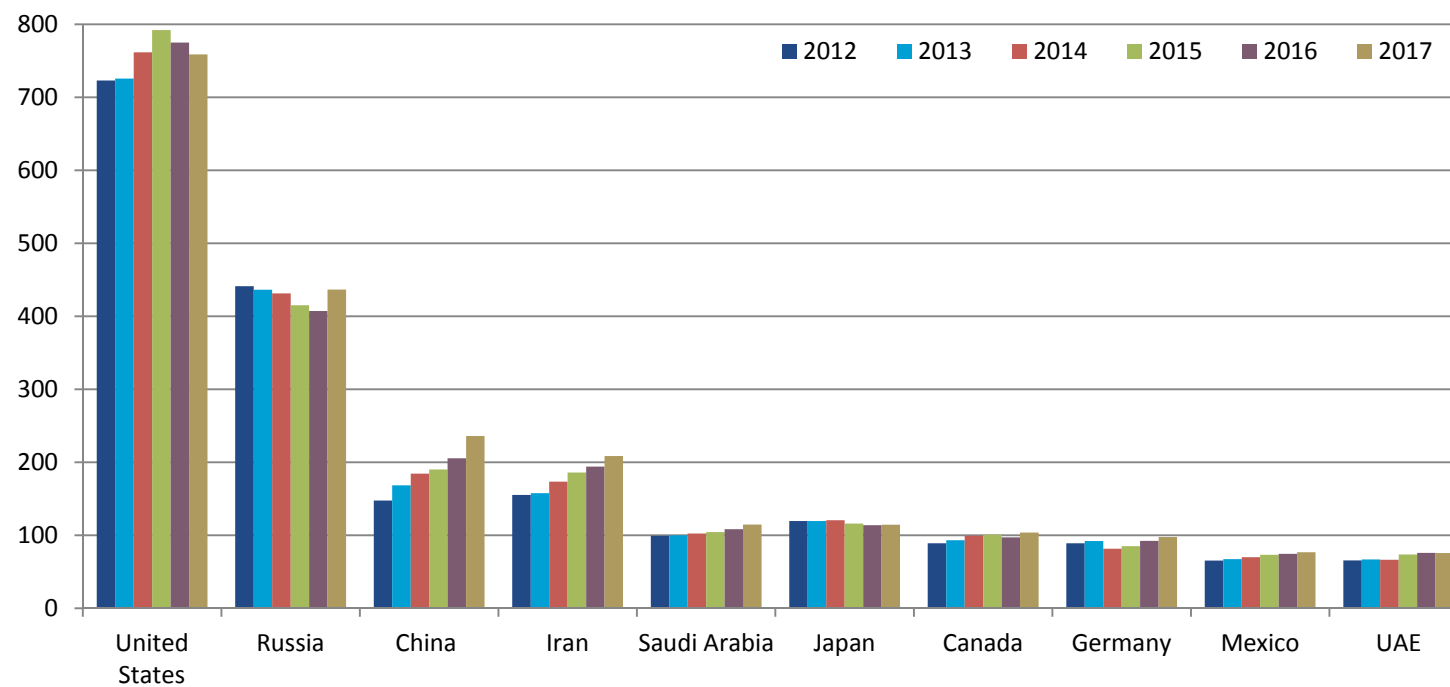


Source: Cedigaz estimates

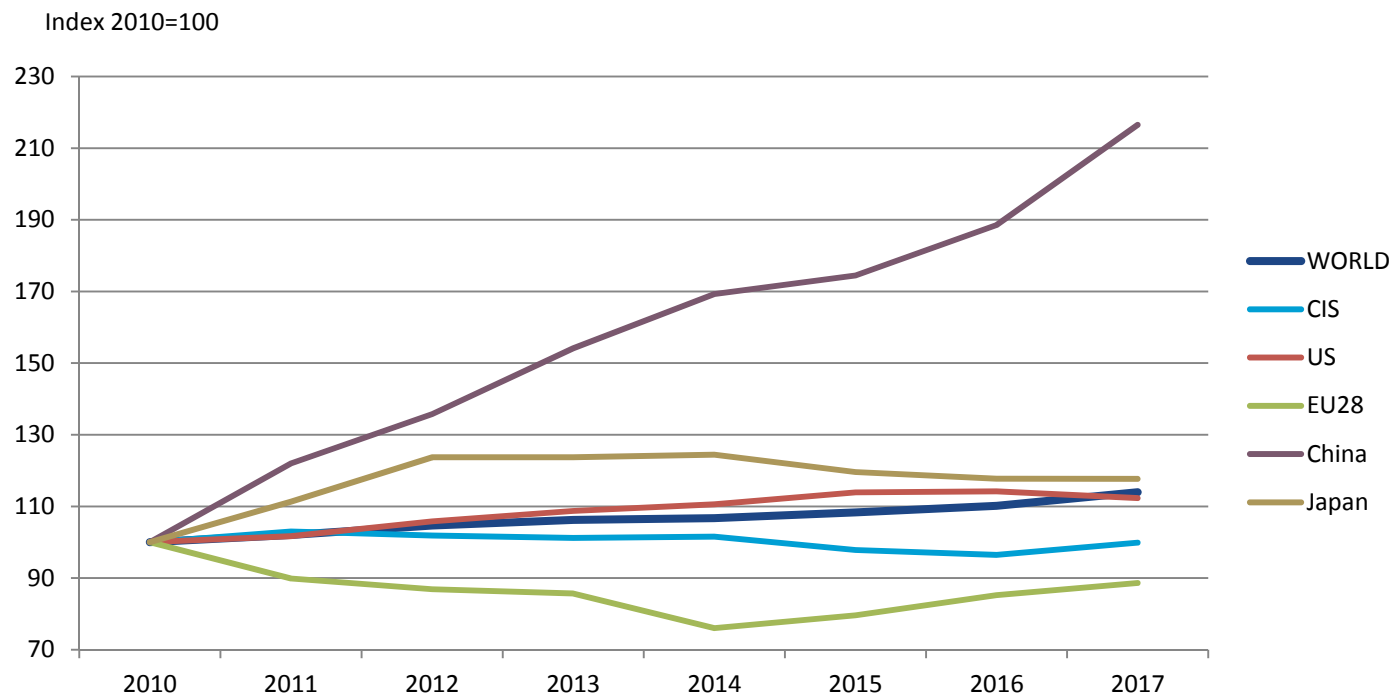
Recent trends in apparent gas consumption by region



Recent trends of apparent consumption in the top-ten consuming countries



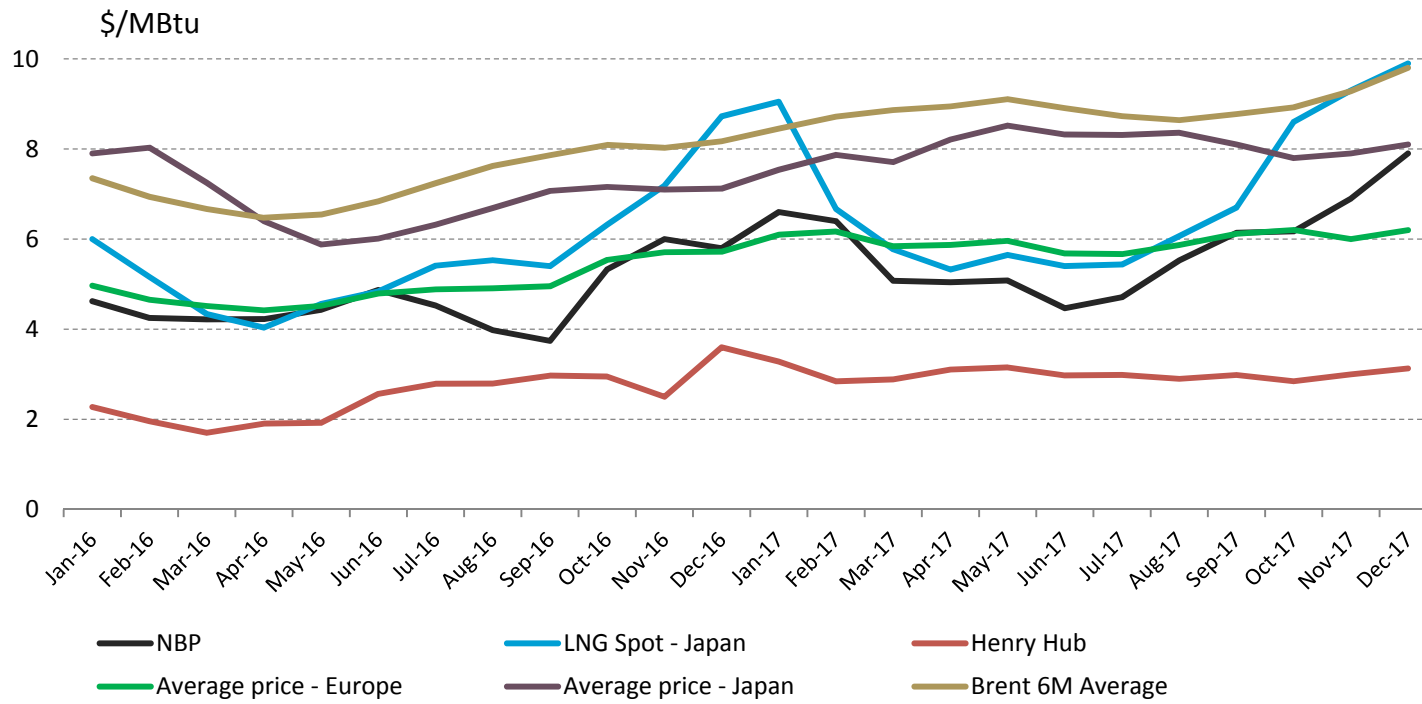
Evolution of actual gas consumption since 2010



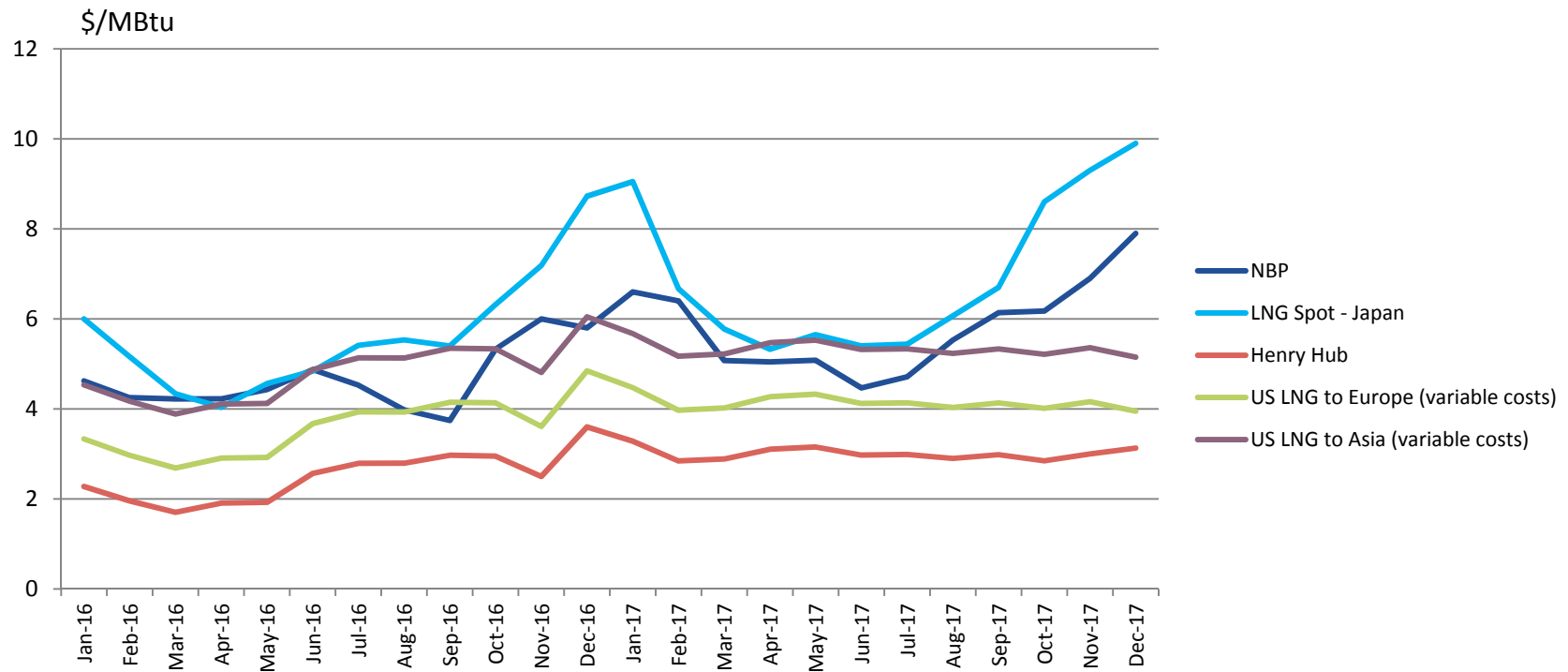
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Evolution of international gas prices



Evolution of international spot prices and US LNG competitiveness





CEDIGAZ, the International Association for Natural Gas

NATURAL GAS IN THE WORLD 2018

Full version (80 slides) + Excel Data Files (Reserves, Production, Trade, Consumption) available to Cedigaz members Price for non-members:

- **Full slideshow (PDF): 350 Euros (VAT excluded)**
- **Full slideshow (PDF) + Data (Excel): 1,500 Euros (VAT excluded)**

More: <http://www.cedigaz.org/products/annual-surveys-2018.aspx>



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CEDIGAZ is an international association
dedicated to natural gas information
and with members all over the
World. CEDIGAZ data has been the
industry's reference since
its foundation in 1961.

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