



LNG Markets GDF SUEZ and its LNG activities

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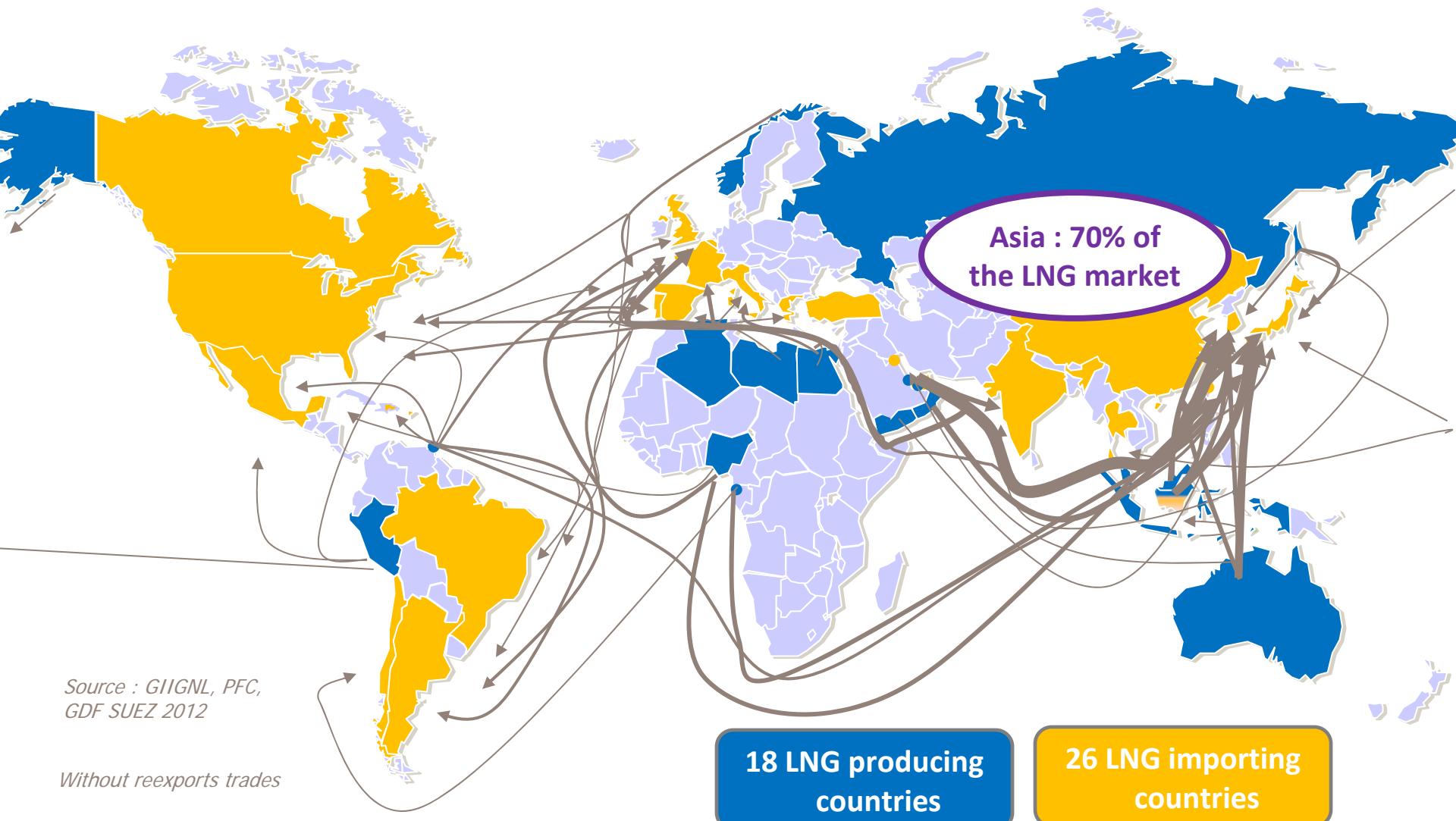
22 April 2013

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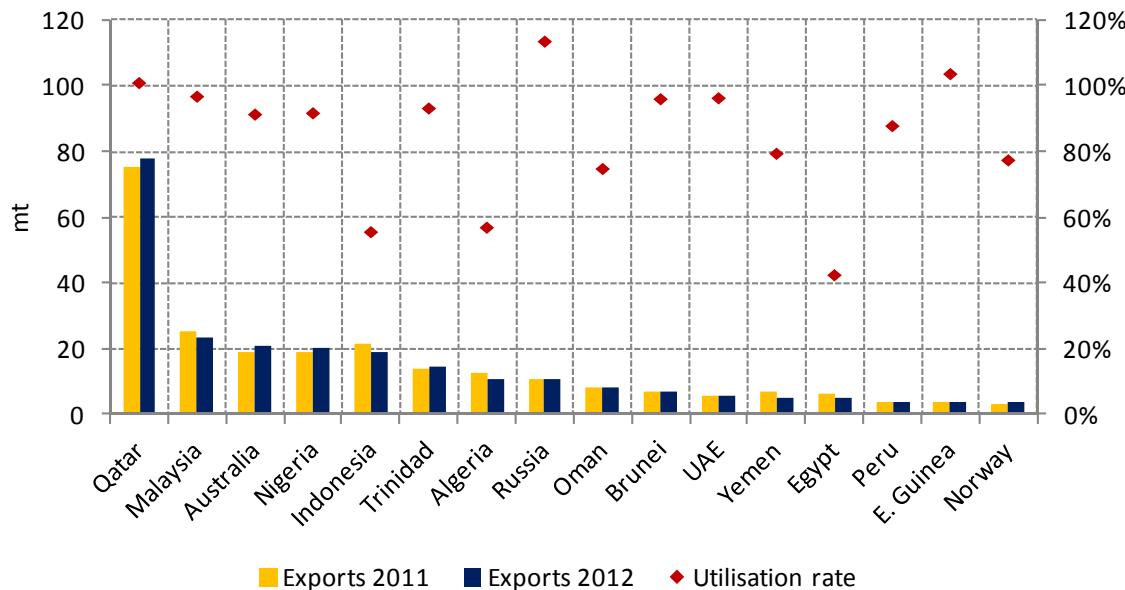


LNG producing and importing countries - main flows in 2012

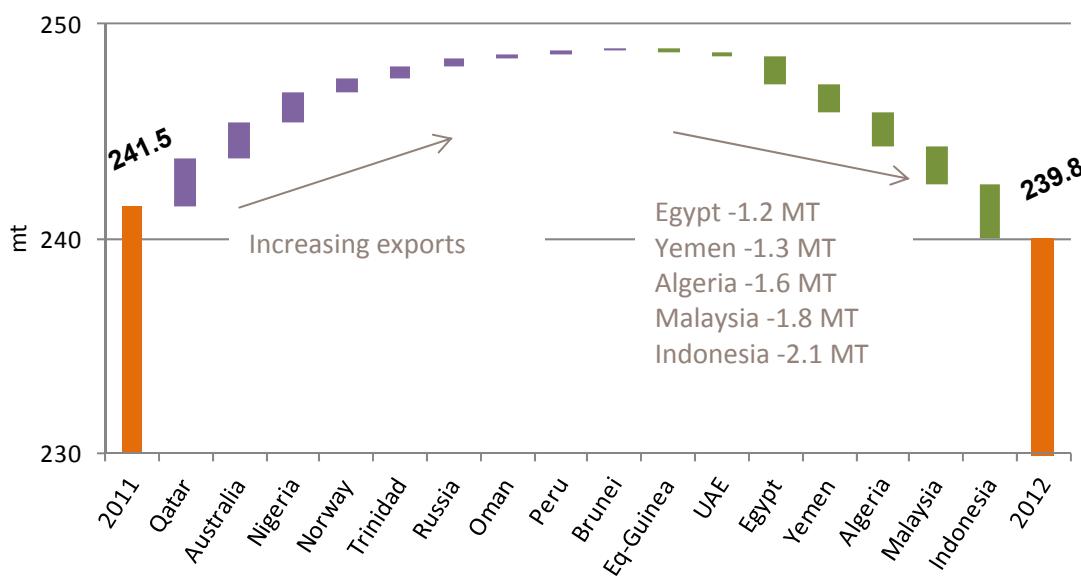
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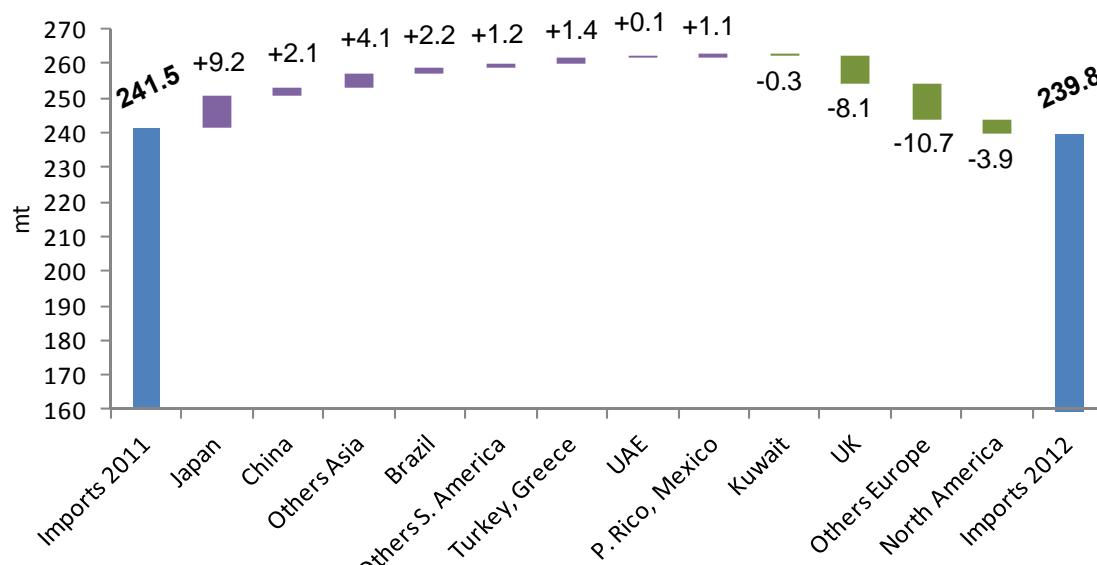
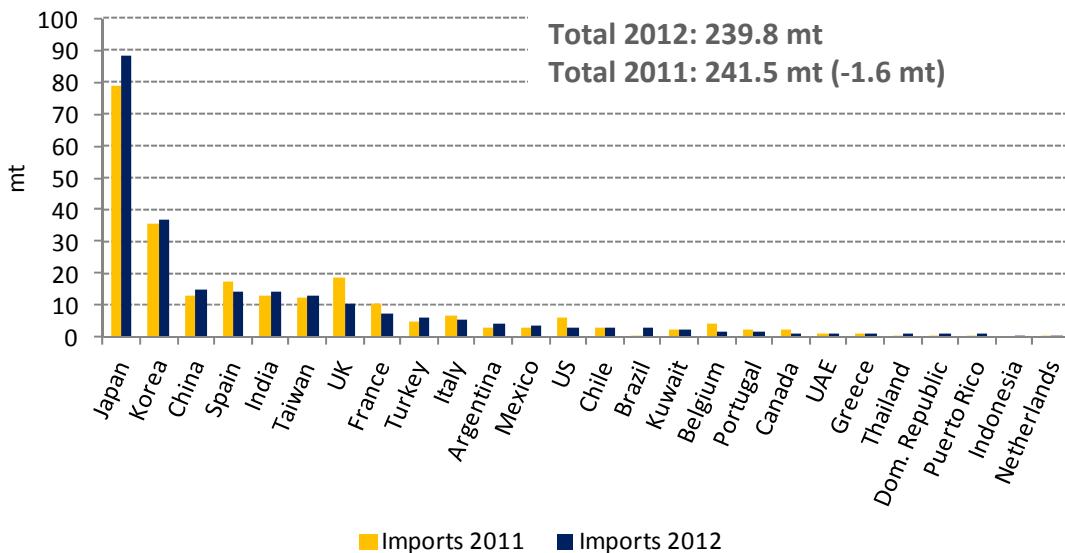
LNG exports: 2012 vs 2011 Analysis



- 2012: first year of global decrease since 1981
- Qatar supplied 1/3rd of the global market in 2012.
- Decreasing LNG volumes available due to:
 - Continuous feedgas issues in Egypt, Algeria
 - Planned and unplanned maintenance in Indonesia
 - Sabotages on feedgas pipelines in Yemen
 - Shutdown of MLNG Tiga after a fire
- Plant utilization rates reached 43% in Egypt, 56% in Indonesia and 57 % in Algeria in 2012.
- Qatar, Russia and Eq. Guinea ran at full capacity and beyond in 2012



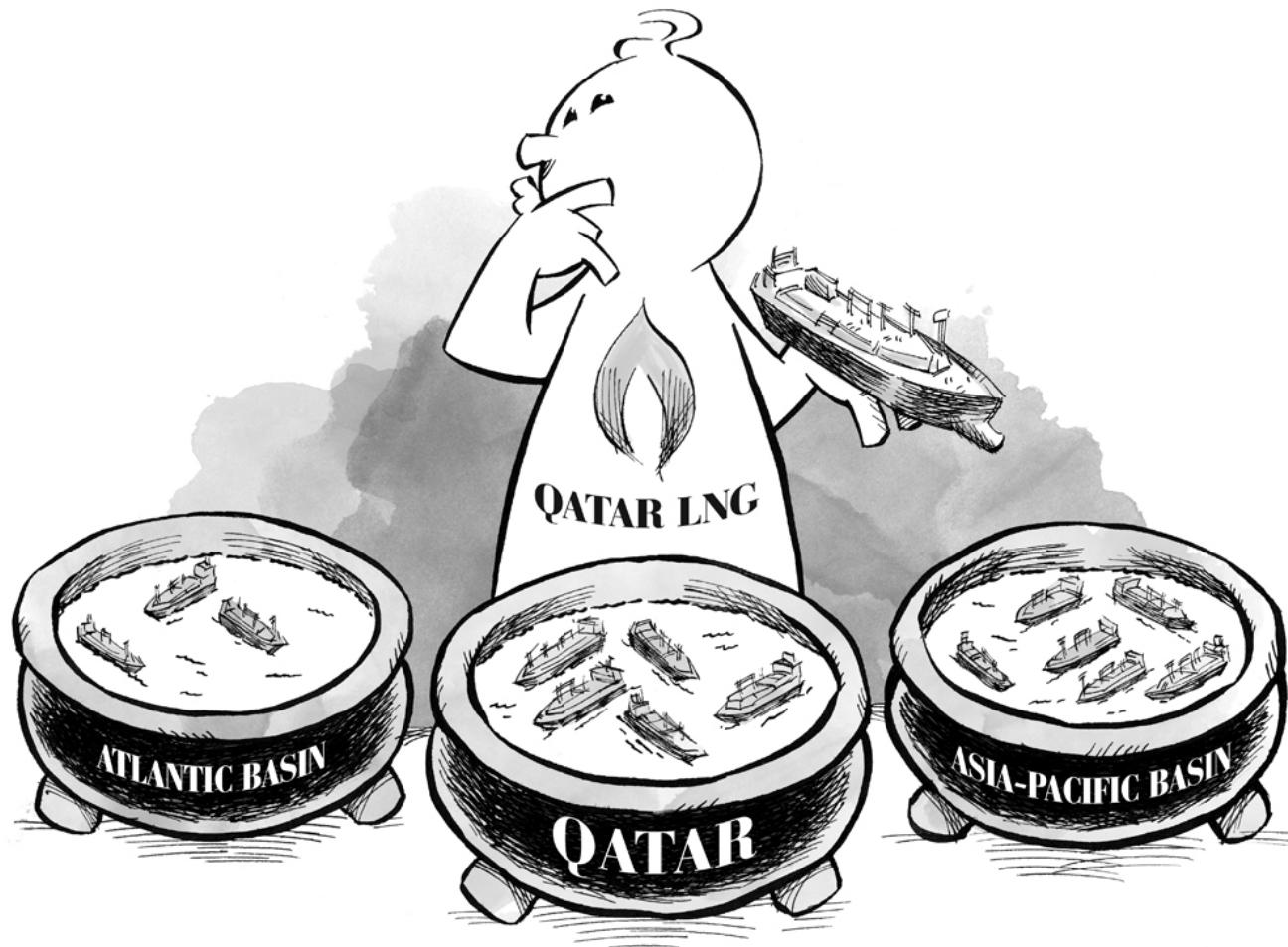
LNG imports: 2012 vs 2011 Analysis



- Asia (+15.4 mt) and Latin America (+3.4mt) attracted flexible LNG, out of Europe (-17.4 mt). Asia increased its market share from 63% to 70%.
- China and India became the 3rd and the 5th LNG importers respectively in 2012 (the 5th and the 6th in 2011).
- High terminal utilisation rate in Asia 50% (47% in 2011) compared to Europe 33% (48% in 2011).
- Decreasing imports in the UK: -8.1mt. The country is now the 7th LNG importer (3rd in 2011). Though imports from Qatar fell by 5 mt, they represented 97% of UK imports in 2012 vs. 86% in 2011.

Shift of Qatari flows to Asia Pacific

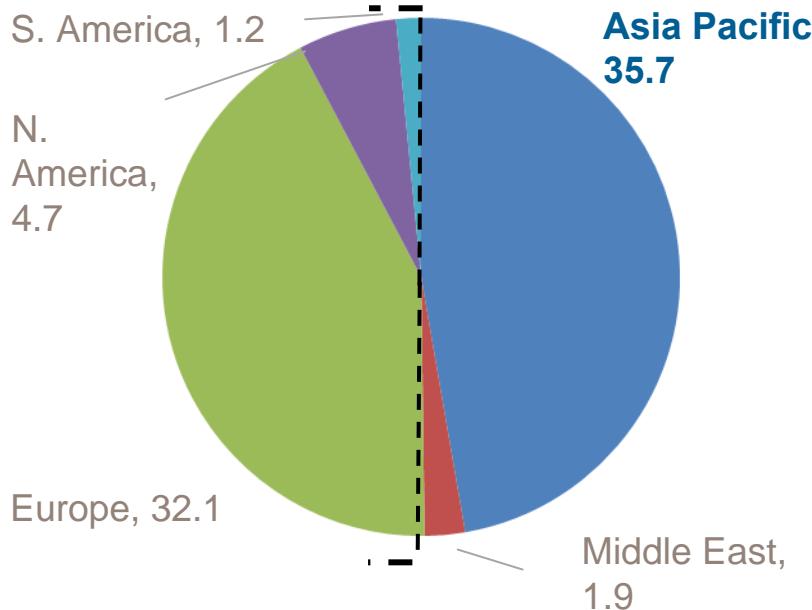
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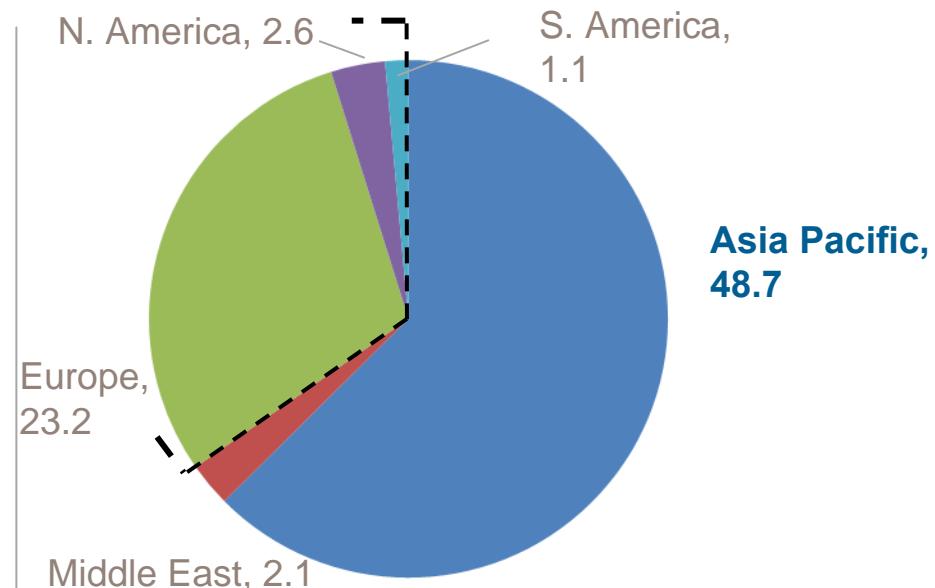


Shift of Qatari flows to Asia Pacific

Qatari LNG exports 2011 – 75.5 mt



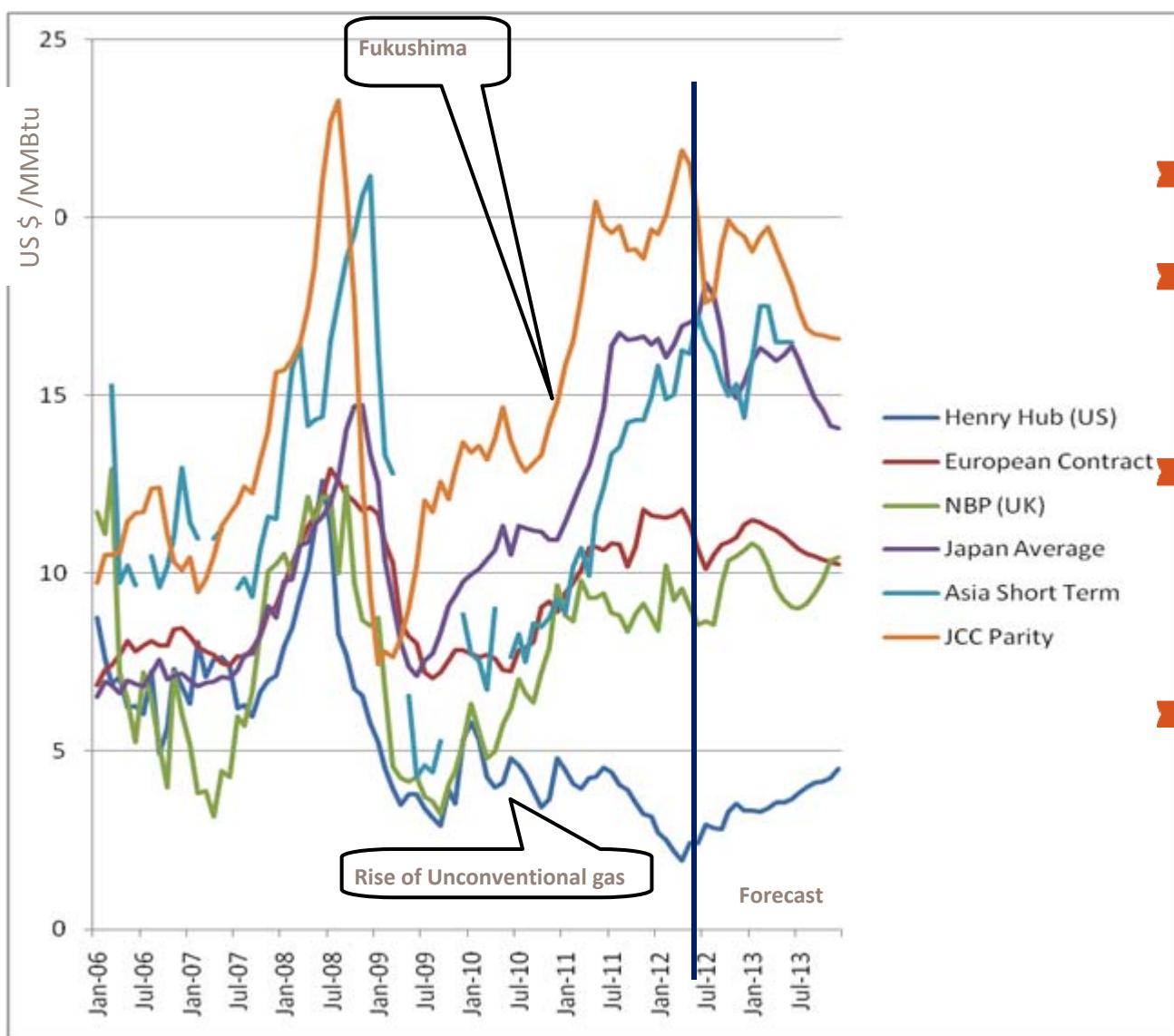
Qatari LNG exports 2012 – 77.8 mt



Source: PFC, GDF SUEZ LNG analysis February 2013

- In 2012, Qatar diverted volumes from Europe and N. America to supply Asia Pacific markets :
Qatari exports to Asia Pacific have increased by +13 mt

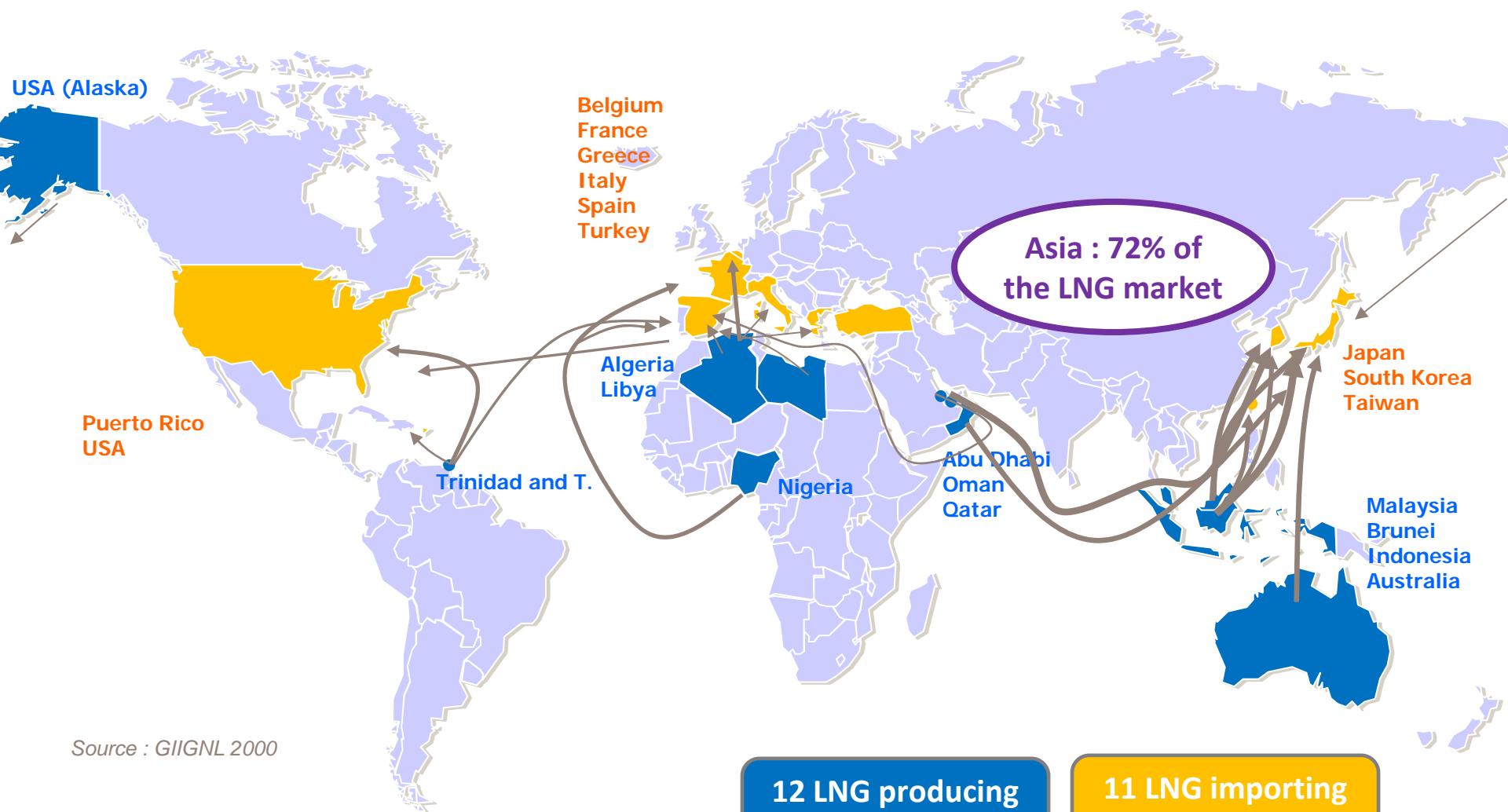
LNG Prices: history and forecasts



- Asian prices are following the path of JCC parity evolution.
- Lower production is expected to lead to a rationalization of Henry Hub prices over the next two years.
- The Average Asian spot price will rise in first quarter 2013 on the back of a deep winter and competing demand from Latin America for spot cargoes.
- Due to a tight LNG market until 2015, significant spreads between Asia and Europe expected to remain

LNG producing and importing countries - main flows in 2000

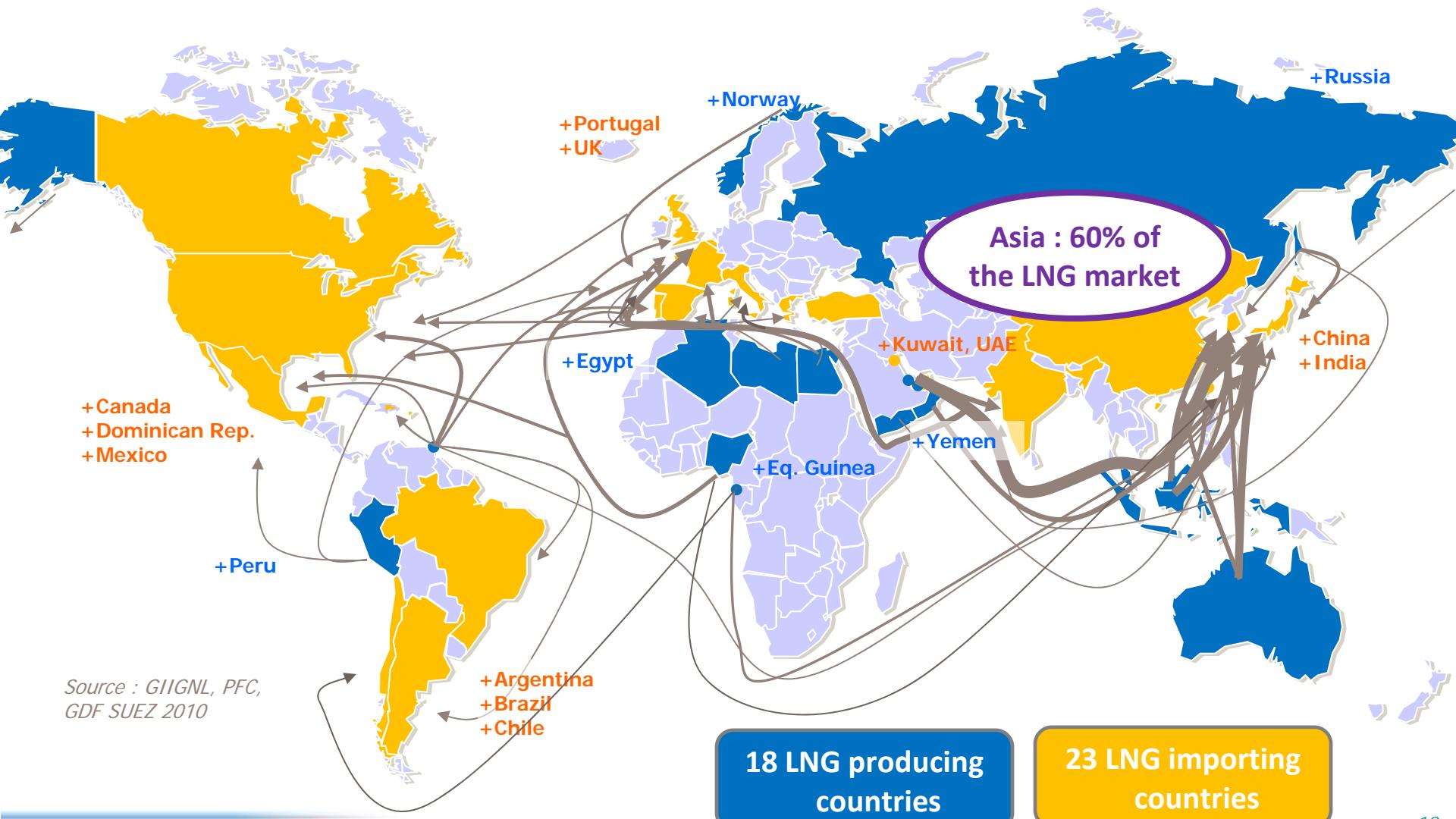
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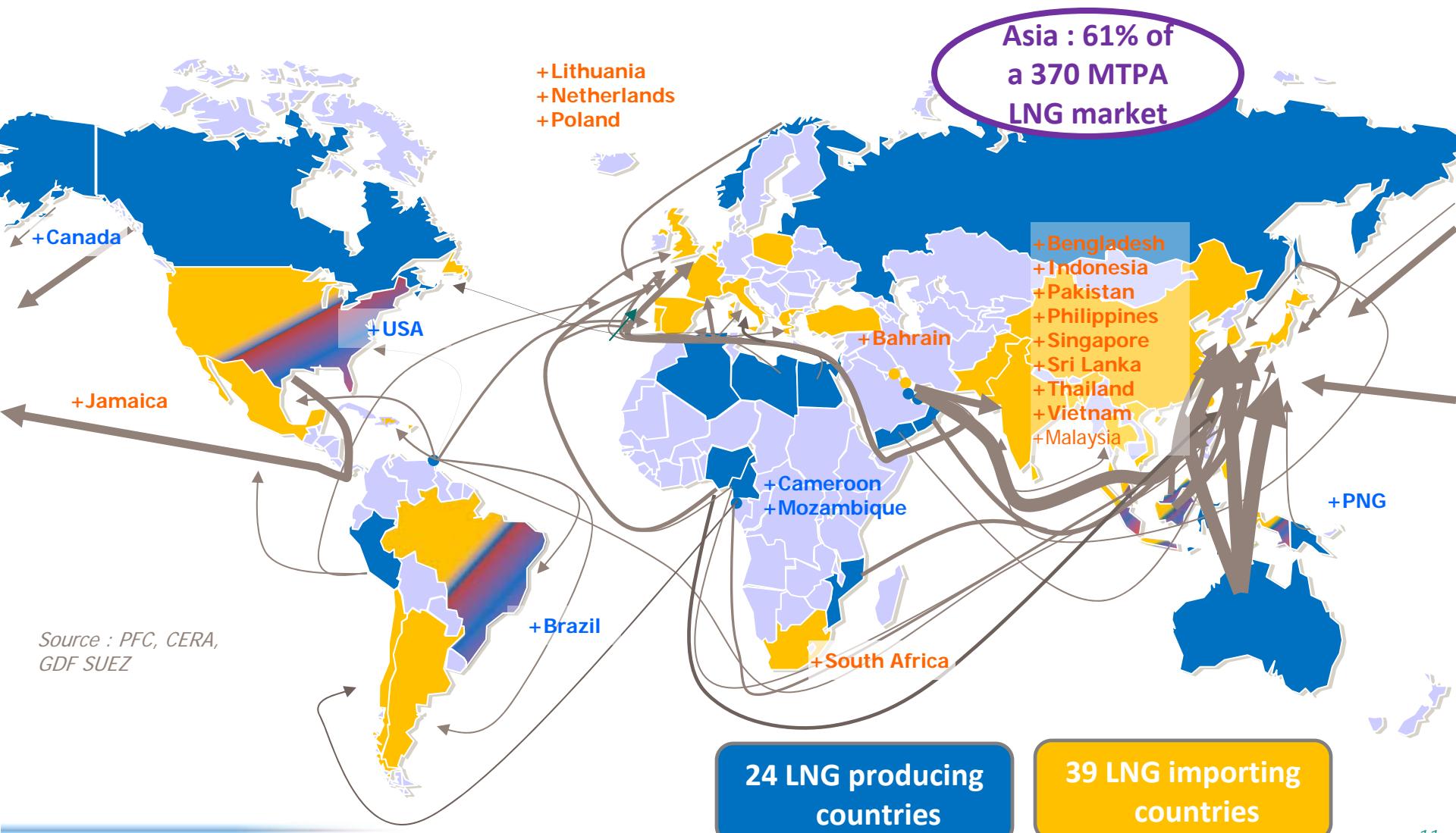
LNG producing and importing countries - main flows in 2010

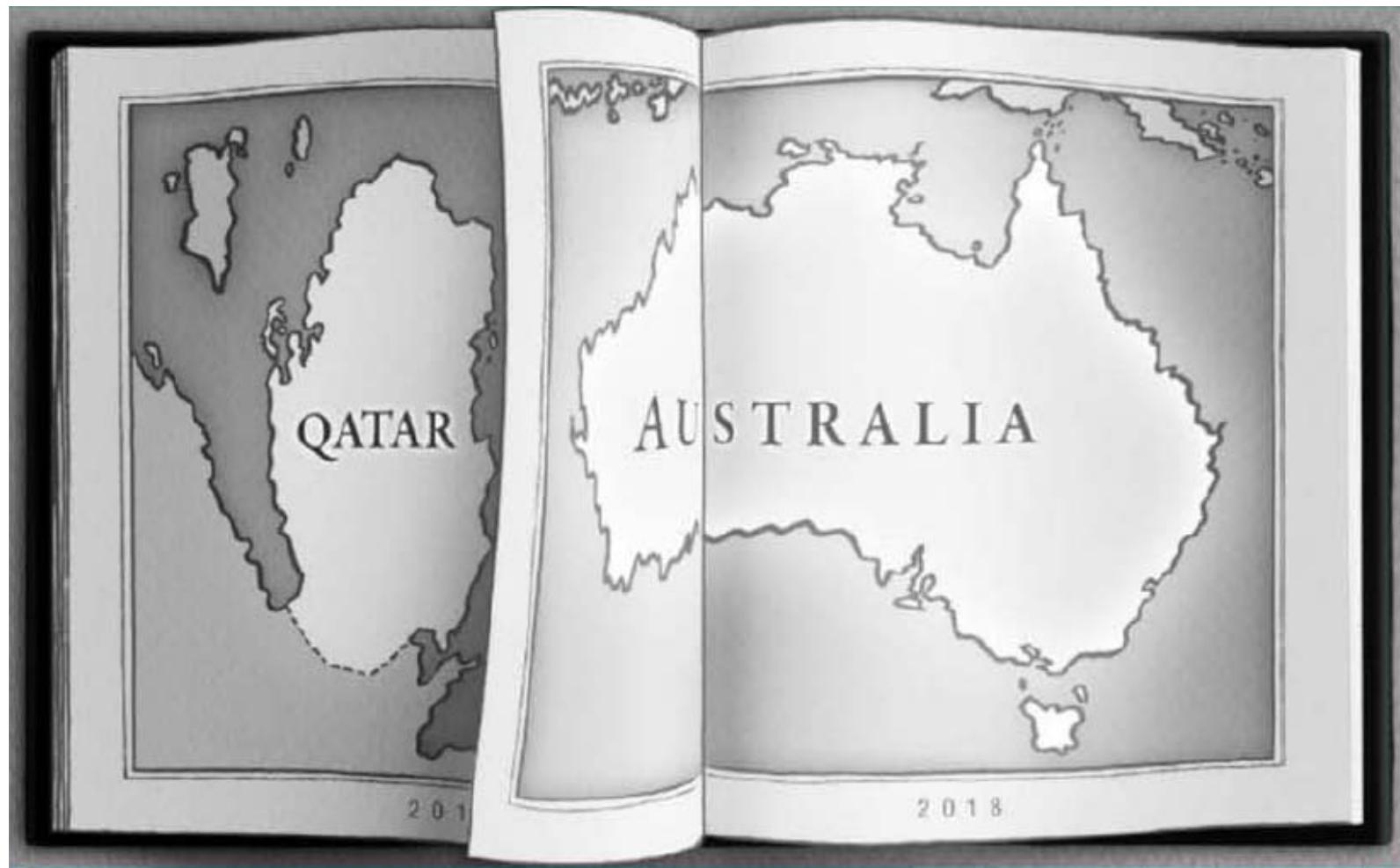
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LNG producing and importing countries - main flows in 2020, a prospective view

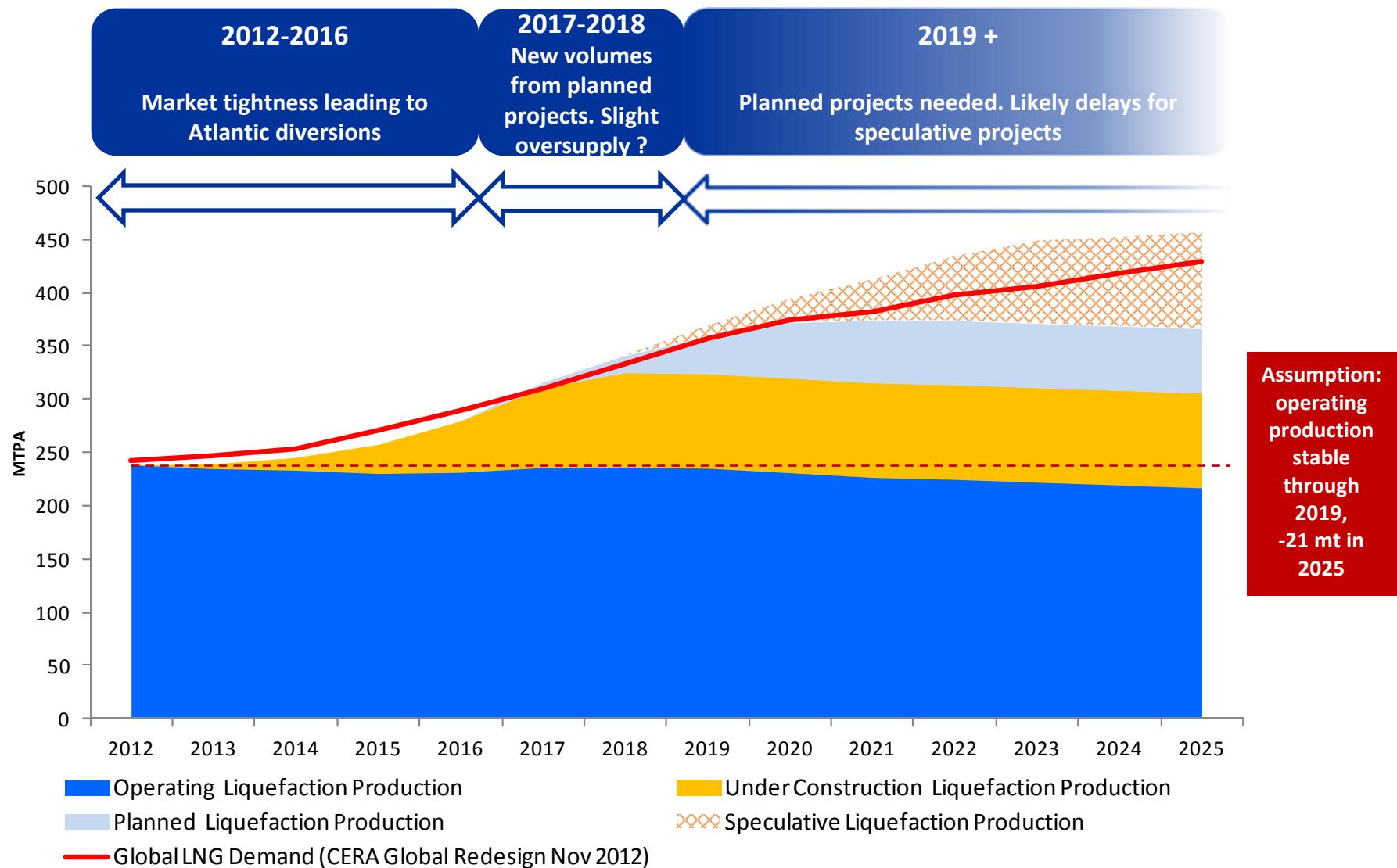
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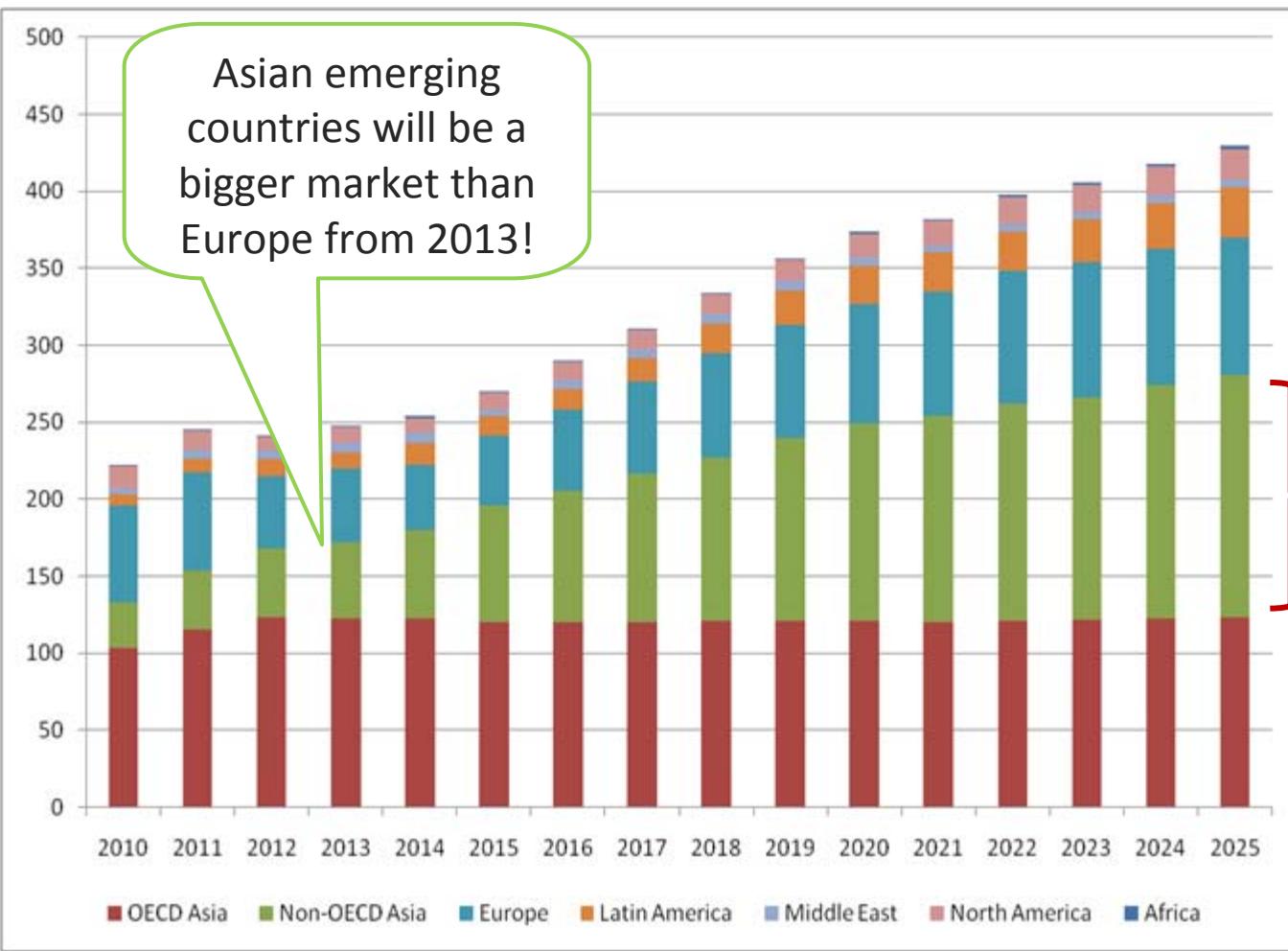
Global LNG Market Outlook to 2025 – Base Case

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LNG demand by Region to 2025

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Global LNG Market growth
CAGR: +4% (+208 mtpa)

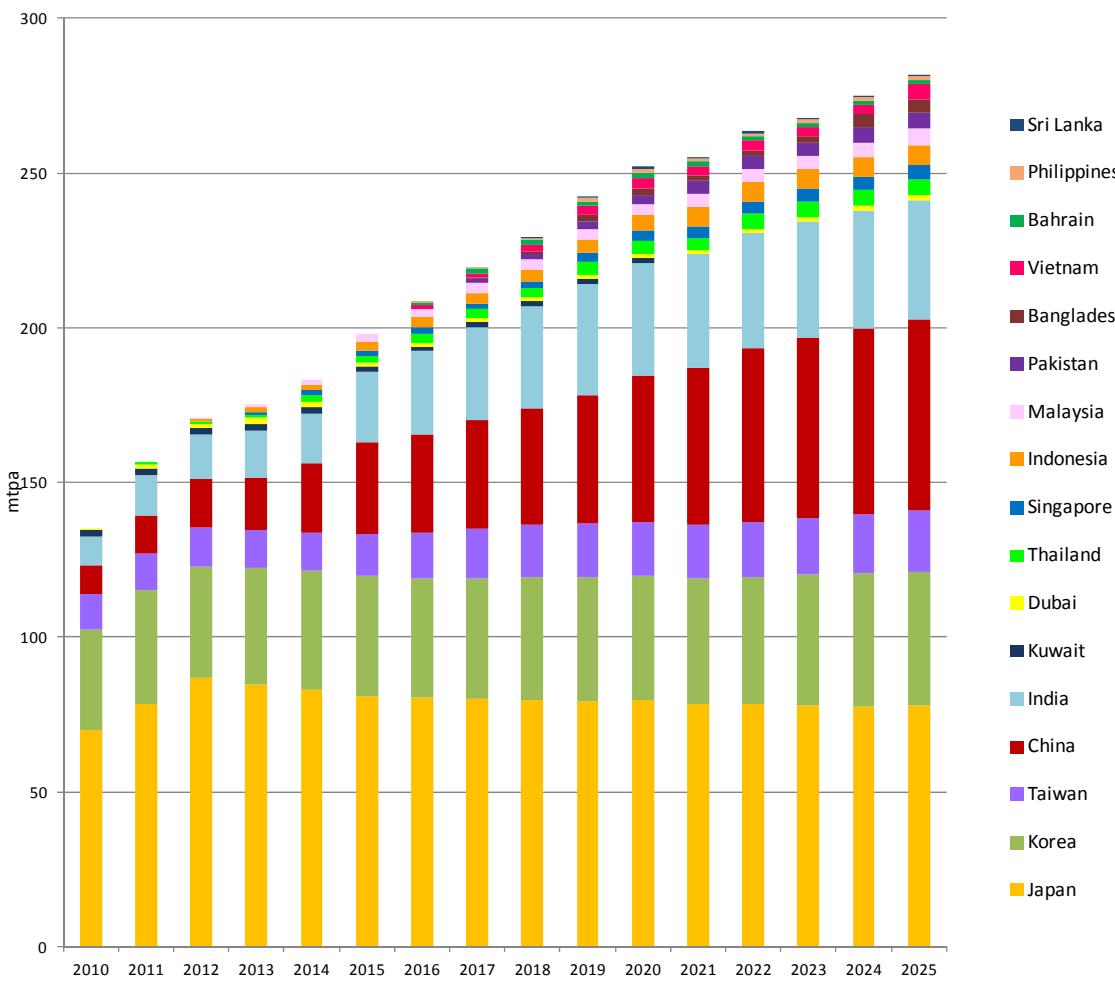
	CAGR 2010 - 2025	Δ in mtpa
Africa	-	+1
North America	+2%	+6
Europe	+2%	+27
Middle East	+1%	+1
Latin America	+11%	+25
Non-OECD Asia	+12%	+128
OECD Asia	+1%	+20

Non-OECD Asia
X4 by 2025

Growing LNG Demand in Asia Pacific and Middle-East

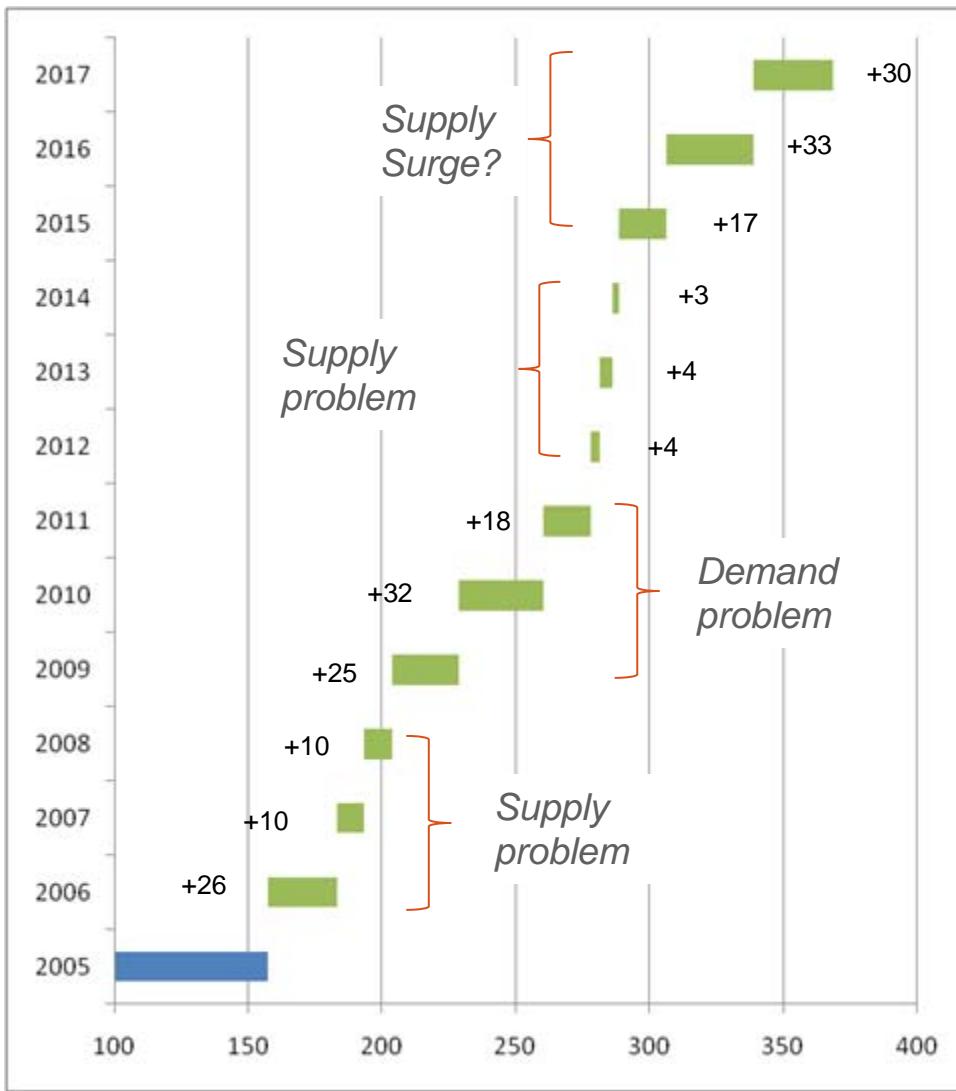
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LNG Demand In Asia and the Middle-East to 2025



- LNG demand expected to increase by 150 mtpa in the region from 2010 to 2025 (CAGR 5%)
- Demand from Japan, South Korea and Taiwan expected to remain stable ~ 50% of total demand by 2025
- By 2025, the growth will be led by:
 - China: +53mt
 - New LNG importers in South East Asia: +37mt
 - India: +29mt

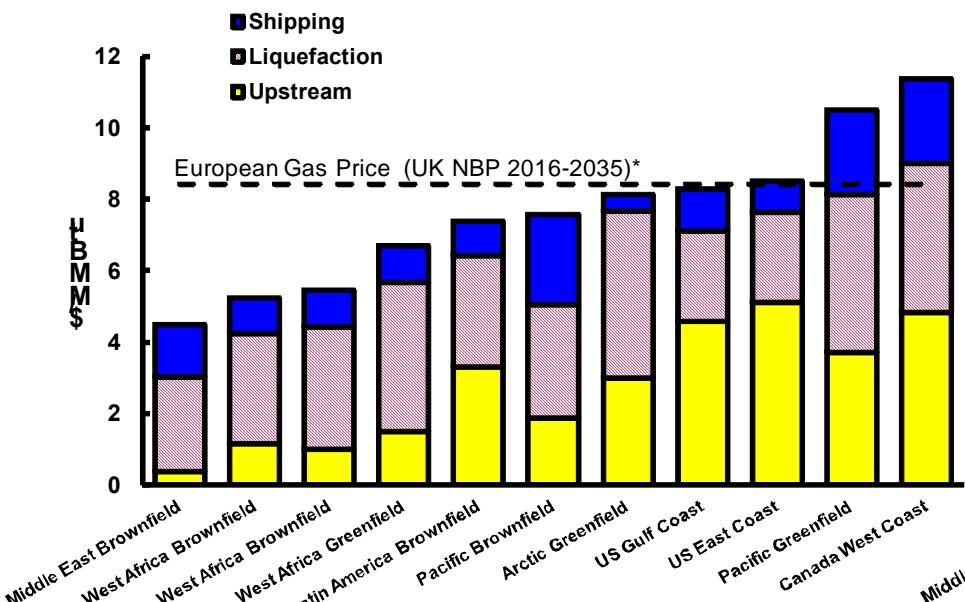
A cyclical LNG market



Sources: PFC, December 2012

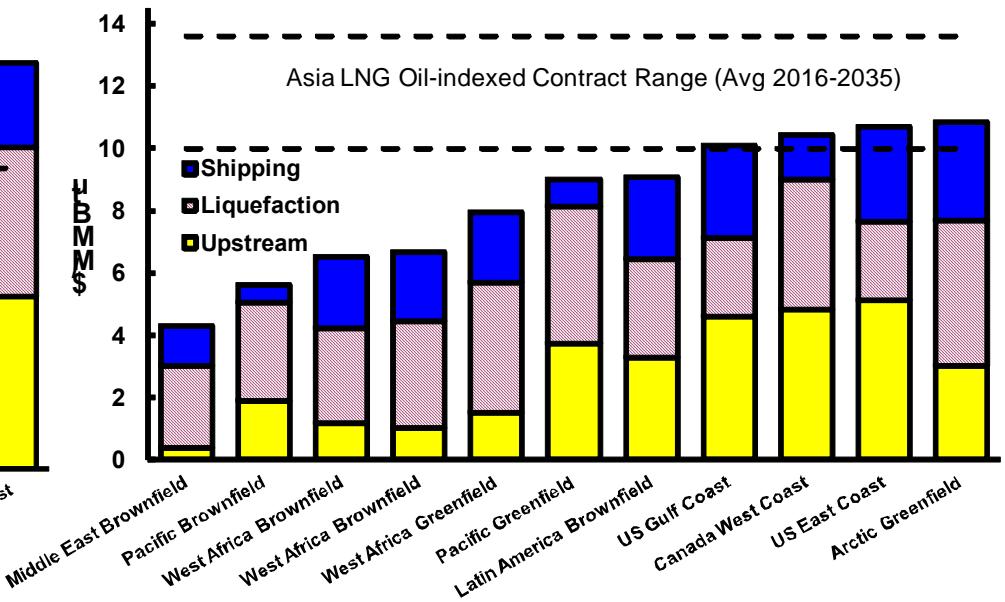
- ➡ After the plentiful years of 2010-2011, new LNG projects are scarce in the medium term, leading to a tight LNG market to 2015
- ➡ The next supply surge should take place starting in 2015, with Australia leading the way
- ➡ Between 2015 to 2017, about 12mtpa out of the 80 mtpa additional volumes have not yet been contracted:
 - These volumes could either remain flexible or been sold on a LT basis;
 - Due to high development costs, projects need to conclude at least some Sales and Purchase Agreements on LT basis to proceed to a Final Investment Decision.
- ➡ With US LNG exports that would come on stream post-2016, would we see an even longer supply surge?

LNG projects competition



*Net of regas and entry charges

Source: CERA



Tough competition to supply Europe and Asia.

GDF SUEZ IN LNG

Leader in the Atlantic Basin

- A 16 mtpa LNG portfolio, sourced from 6 countries
- Largest LNG importer in Europe
- 2nd largest operator of LNG terminals in Europe
- 3rd largest LNG importer in the world



Snøhvit liquefaction plant, Norway

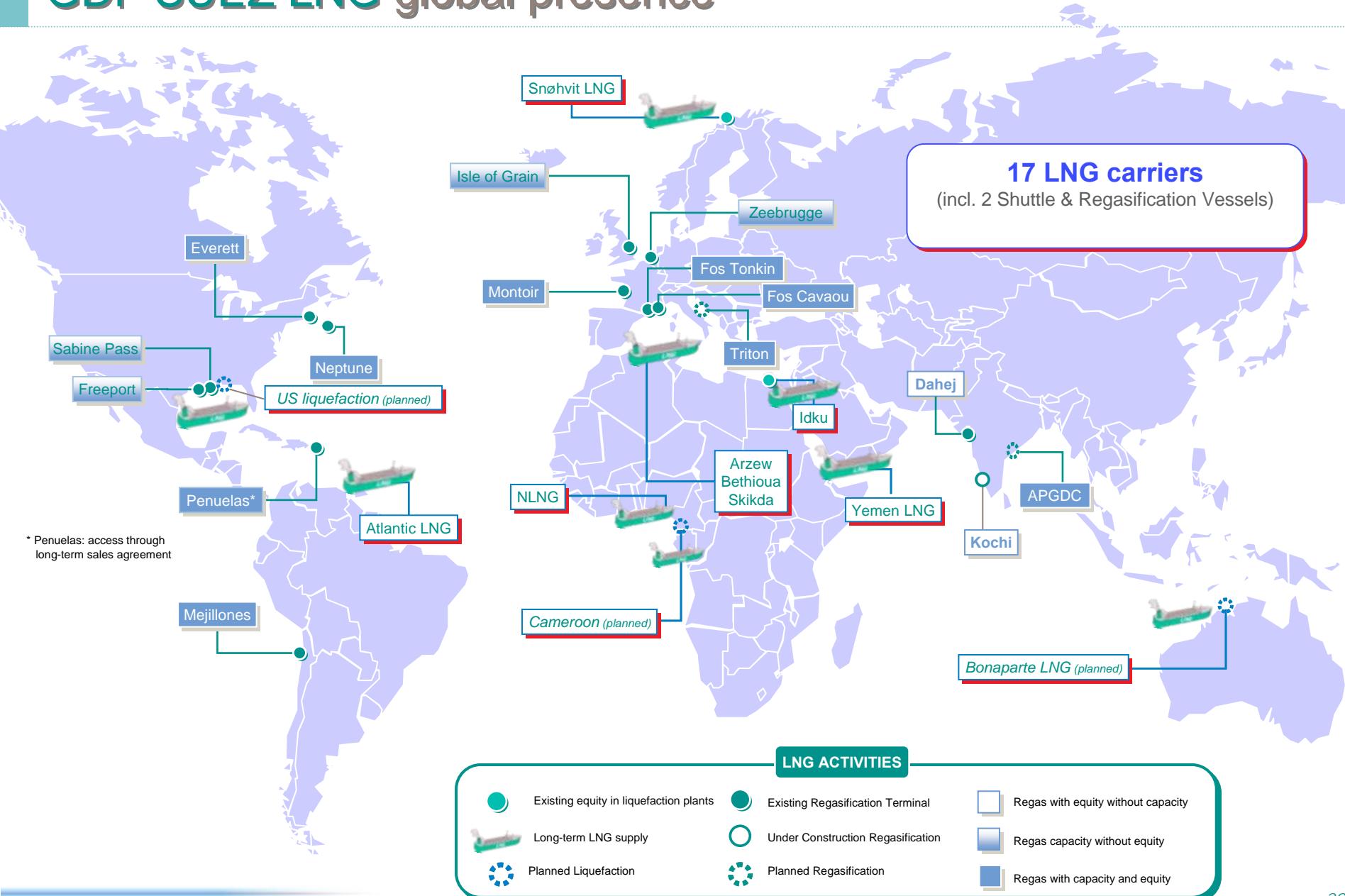


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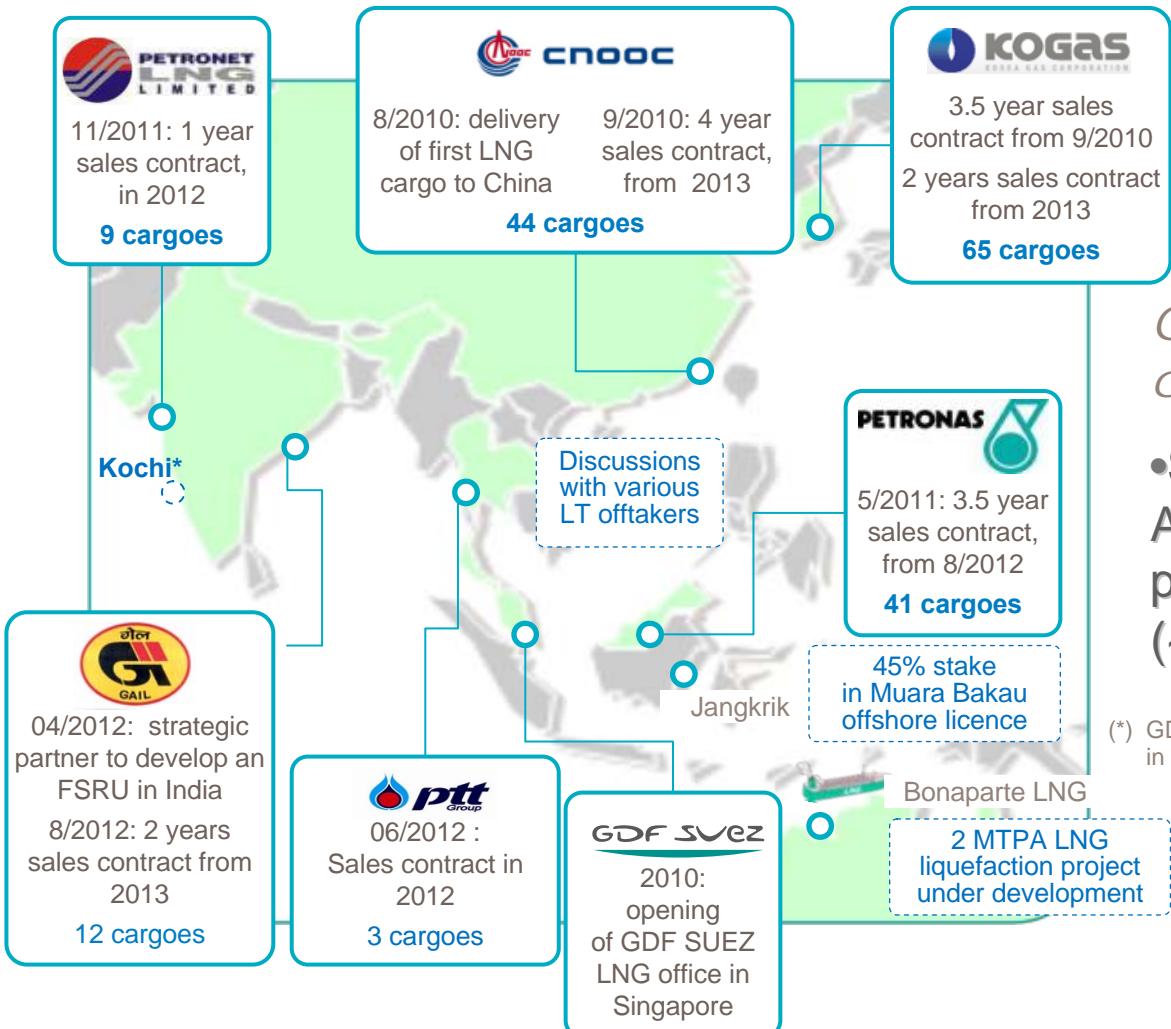


Fos Cavaou LNG terminal, France

GDF SUEZ LNG global presence



GDF SUEZ LNG development in Asia



GDF SUEZ' value creative commercial development

- Sales agreements with major Asian players: up to 174 cargoes (~10.8 Mt)

(*) GDF SUEZ holds a 10% stake in Petronet LNG

A balanced portfolio of liquefaction projects and assets:
geographical diversity and variety of business models

Integrated Projects

BONAPARTE LNG



- Upstream and floating liquefaction offshore Australia
- Commercialization of the LNG in Asia Pacific markets
- FID in 2014, first gas in 2018

Santos

Aggregator

CAMEROON LNG



- Aggregation of the feedgas
- Onshore liquefaction plant development
- Commercialization of the LNG and offtake LNG volumes
- Opportunity for geographical optimization
- FID in 2014, first gas in 2018



LNG Liquefier/Tolling

US EXPORTS Cameron LNG



- Access to liquefaction capacity
- Access to flexible LNG
- Opportunity to sell to Asia Pacific with a variety of indexation exposure (HH, Brent)
- Early start up of supply (2016+)





Innovative market distribution: Future opportunities in Small-scale LNG

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Niche LNG

Supply small/remote markets (oversea or overland) with small LNG tankers (less than 20,000 m³) or LNG barges or LNG trucks

LNG as fuel

LNG to be used as fuel for ships or for road vehicles. Strong potential due to:

- IMO pollution rules limiting NOx and SOx emissions from ships (fuel for ships).
- environmental regulations in Europe/Asia

In the US,

Everett terminal supplies LNG via truck to nearly all of the 31 customer-owned LNG storage tanks in region (0.2 mt delivered per year by truck - 10 000 loadings)

GDF SUEZ move into the small scale LNG market in Europe:

- GDF SUEZ will supply GASNOR with 7.5 TWh of LNG from Zeebrugge over a 12-year period, starting in 2013.
- GDF SUEZ and Doeksen have designed an LNG fuelled ferry, to be commissioned and used in the Netherlands





BY PEOPLE FOR PEOPLE