

# Can LNG allow gas demand to grow in Europe?

**ESCP – 22 September 2016**  
**[thierrybros.com](http://thierrybros.com)**

# Consequences of high gas prices in 2011-2013

Short

- Increase producer's rent
  - Very good

Med.

- Demand destruction
  - Impact on export volumes?

Long

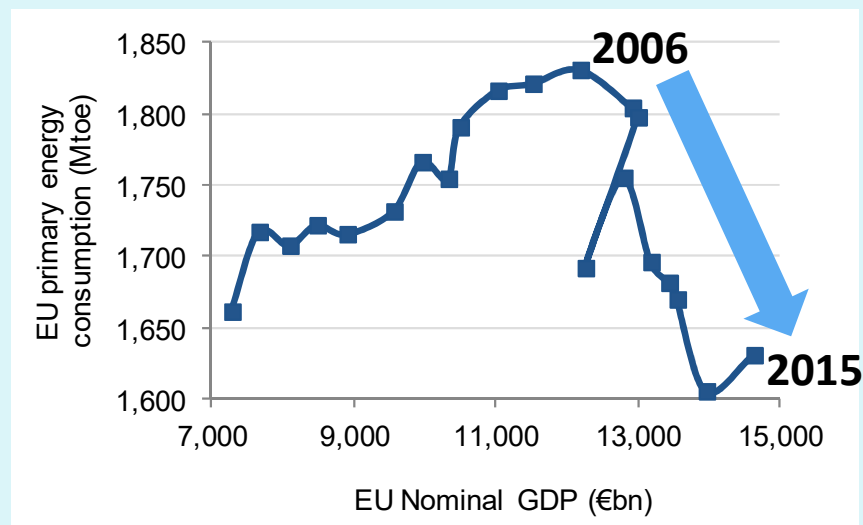
- New suppliers entering the market
  - New competitors from 2016

After

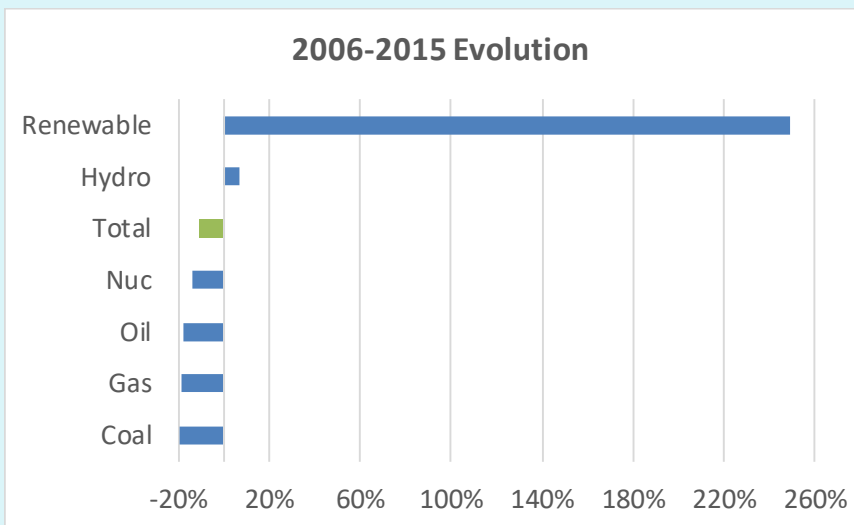
- *Lower prices & higher demand?*

# Long term sustainability of gas?

**EU Primary energy consumption**  
**Down by 10,9% since 2006**

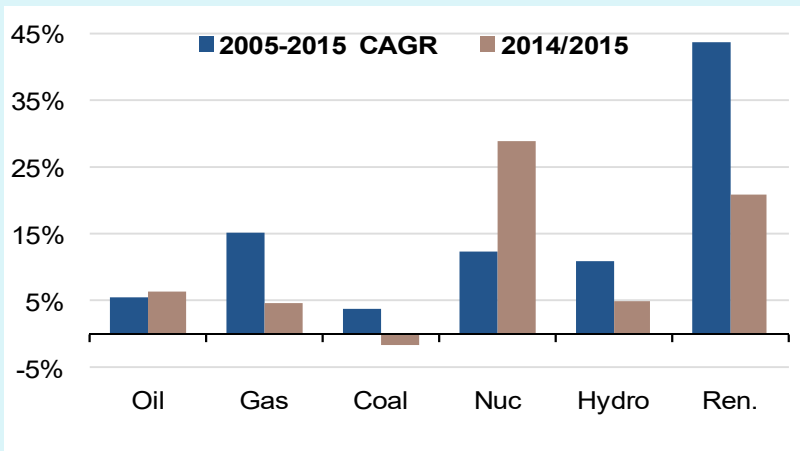
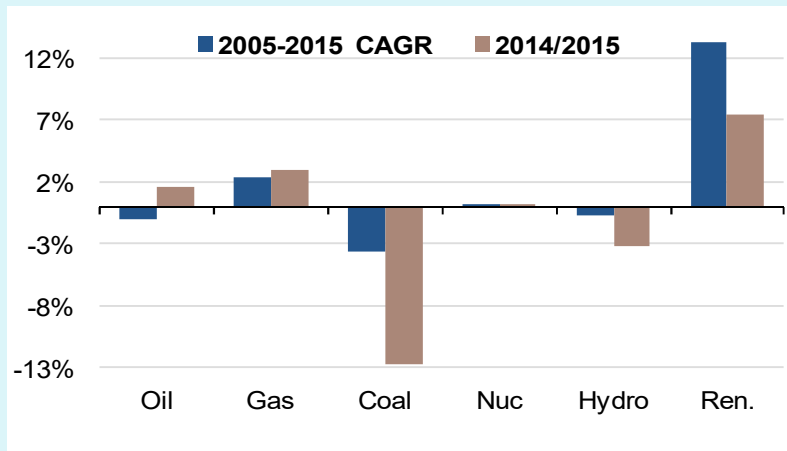
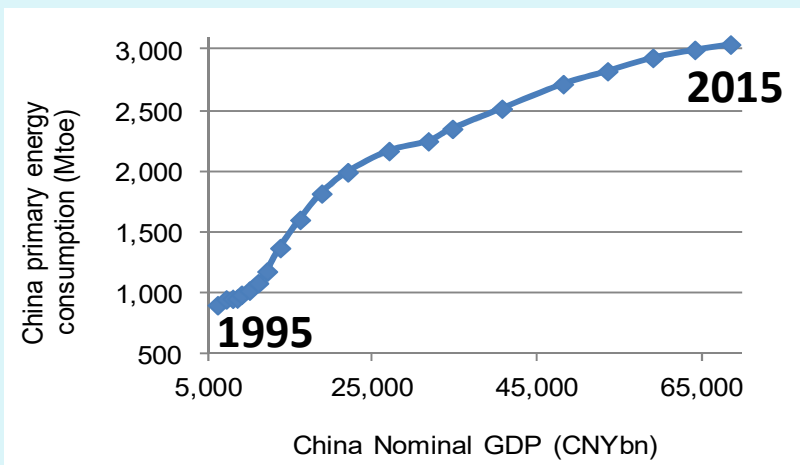
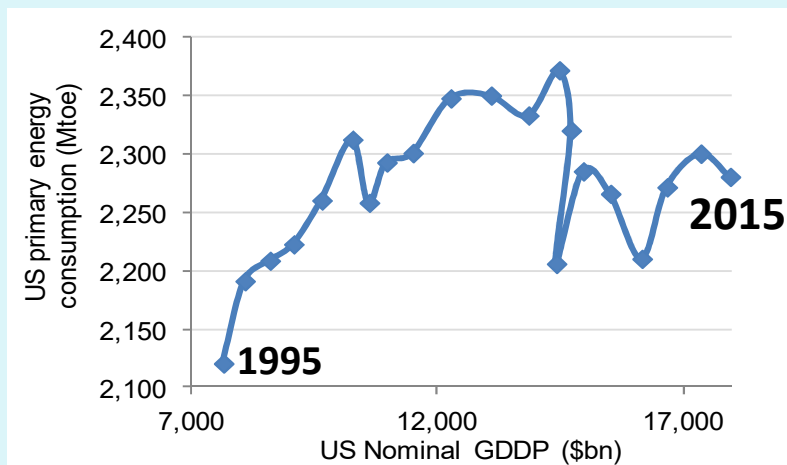


**Most fuels down**  
**Renewable x3.5**



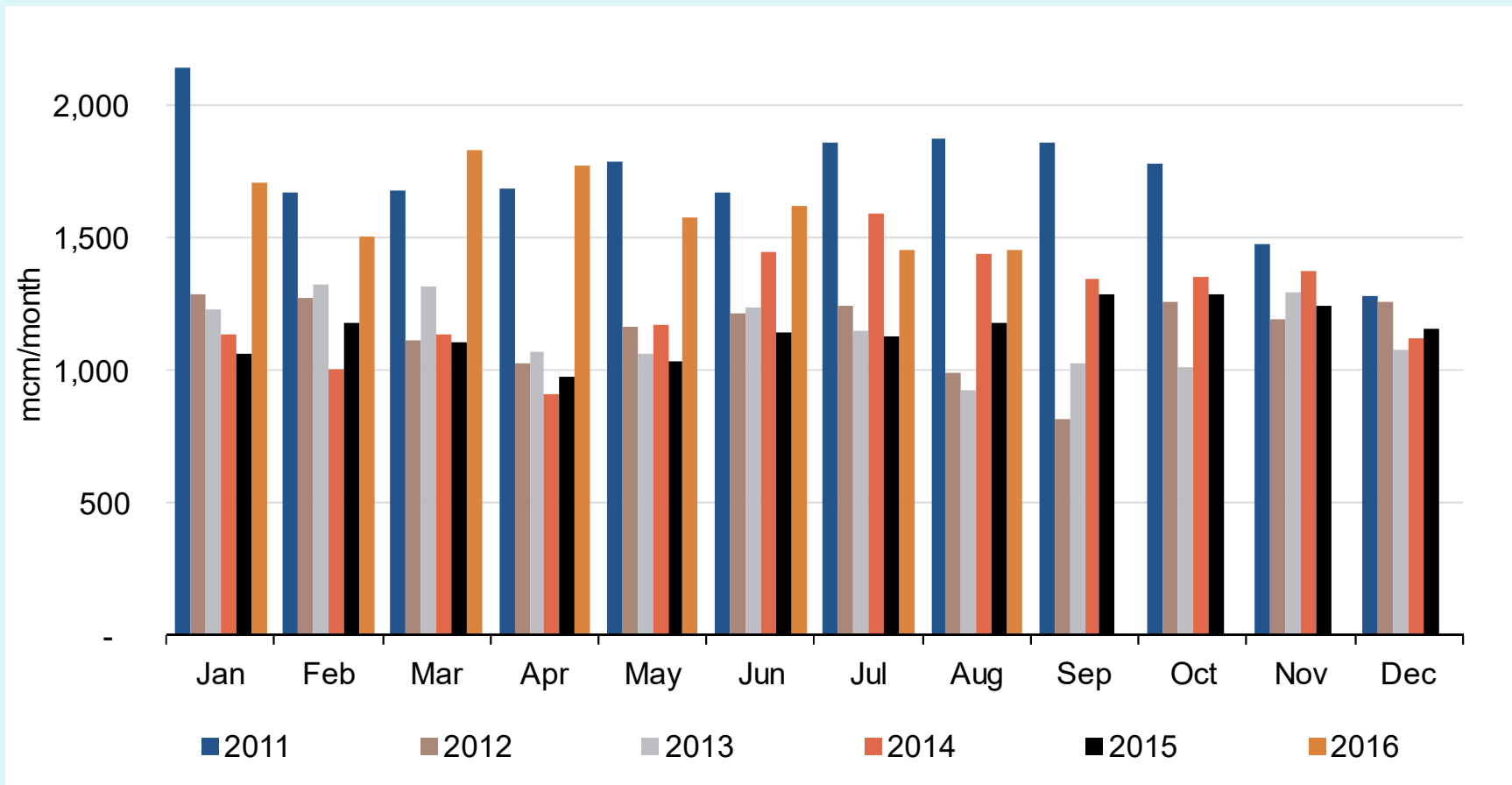
Source: BP Statistical Review June 2016, Eurostat

# Primary energy consumption



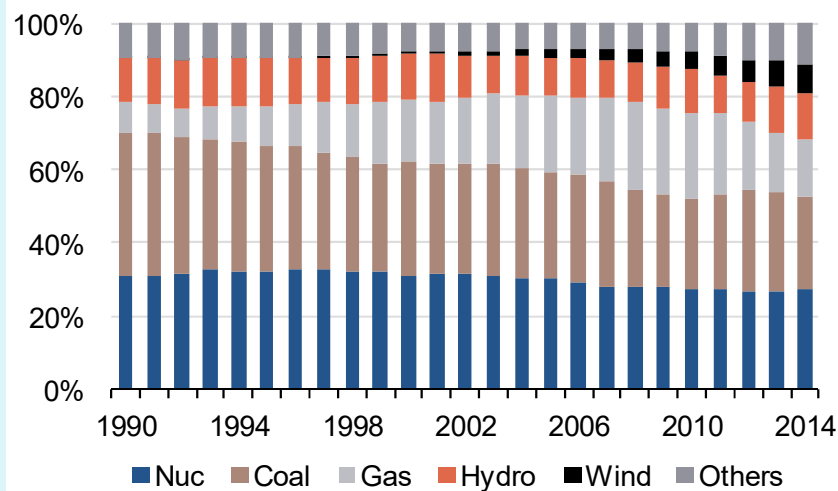
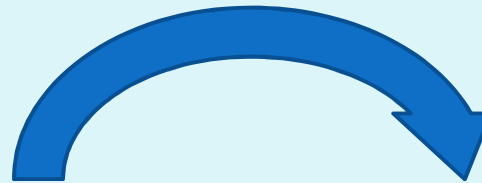
Source: *thierrybros.com*, BP Statistical Review, Eurostat, IMF

# Gas for power generation in the UK

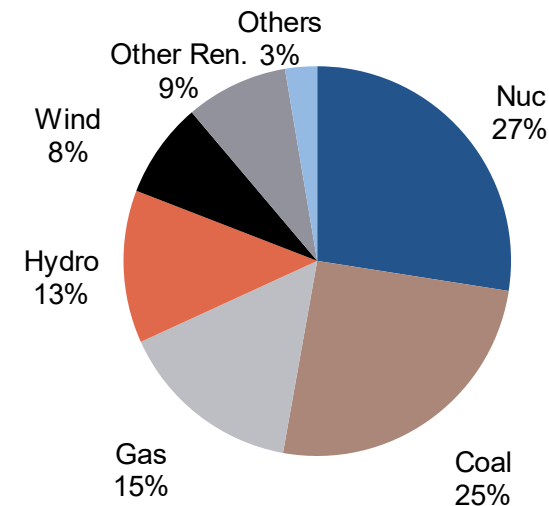


Source: SG Cross Asset Research

# Gas for European power generation?

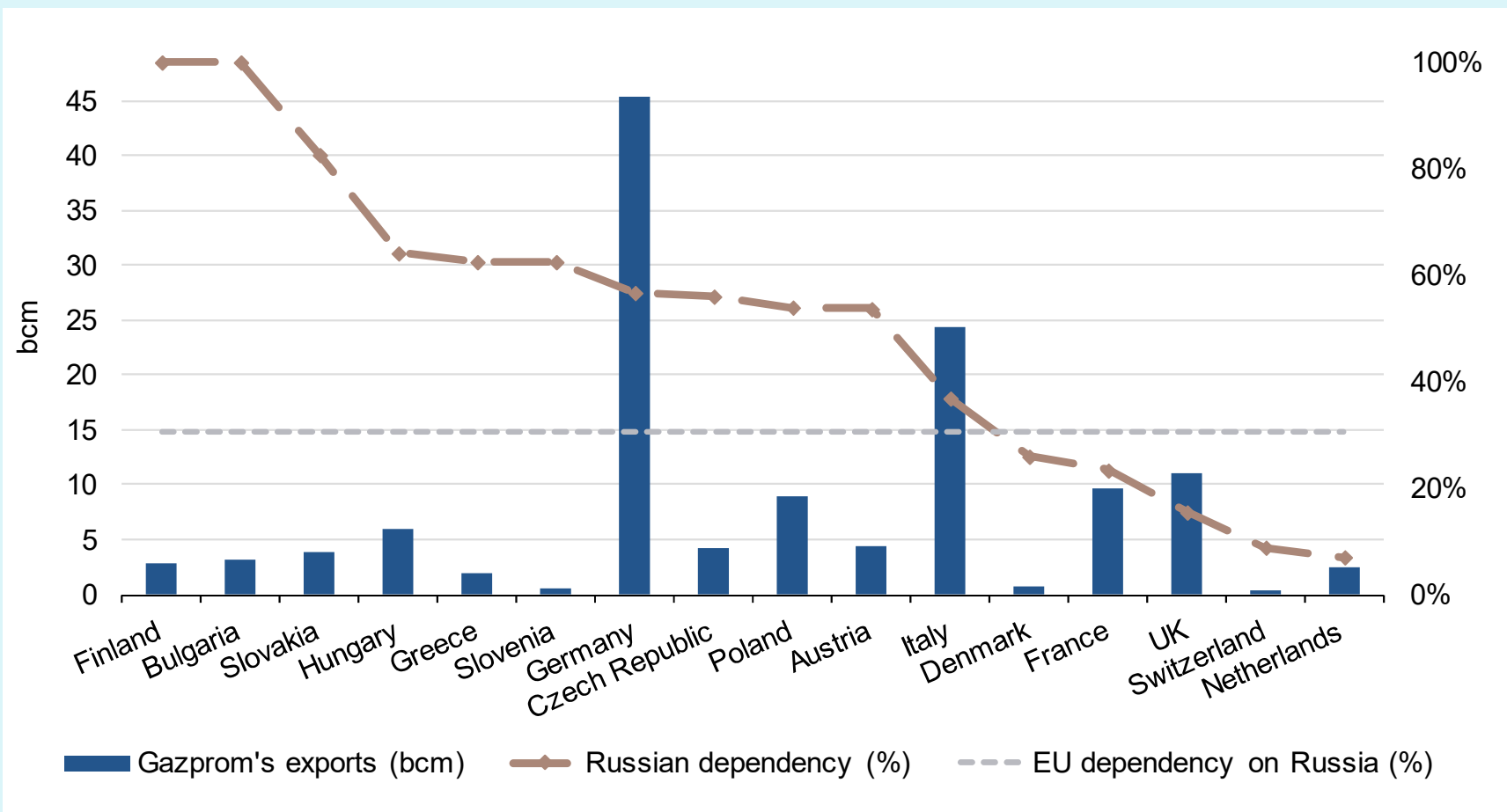


Source: *thierrybros.com*, Eurostat



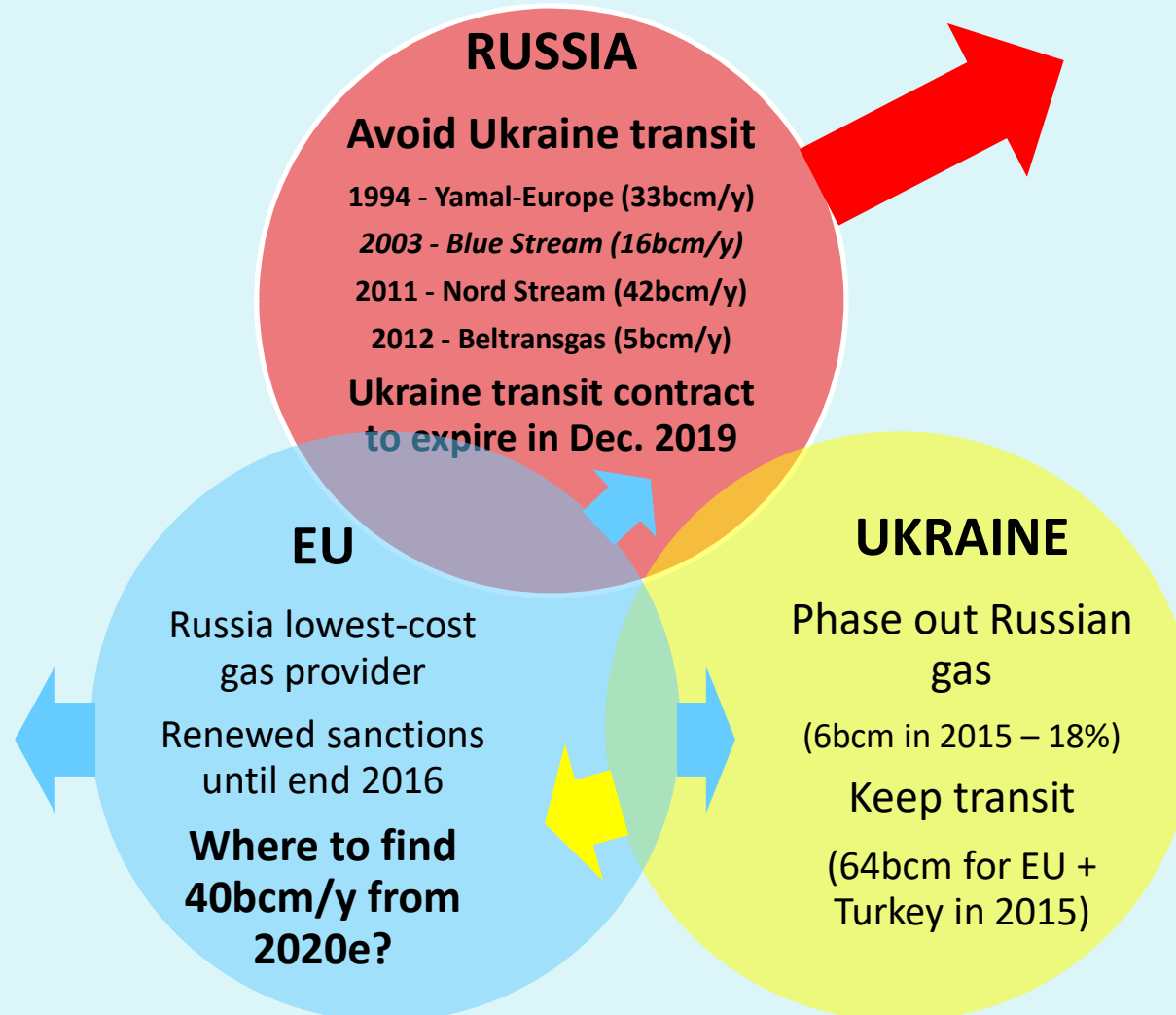
**A 1% switch from coal to gas in EU power generation increases gas demand by c. 6bcm**

# Solidarity cracks...



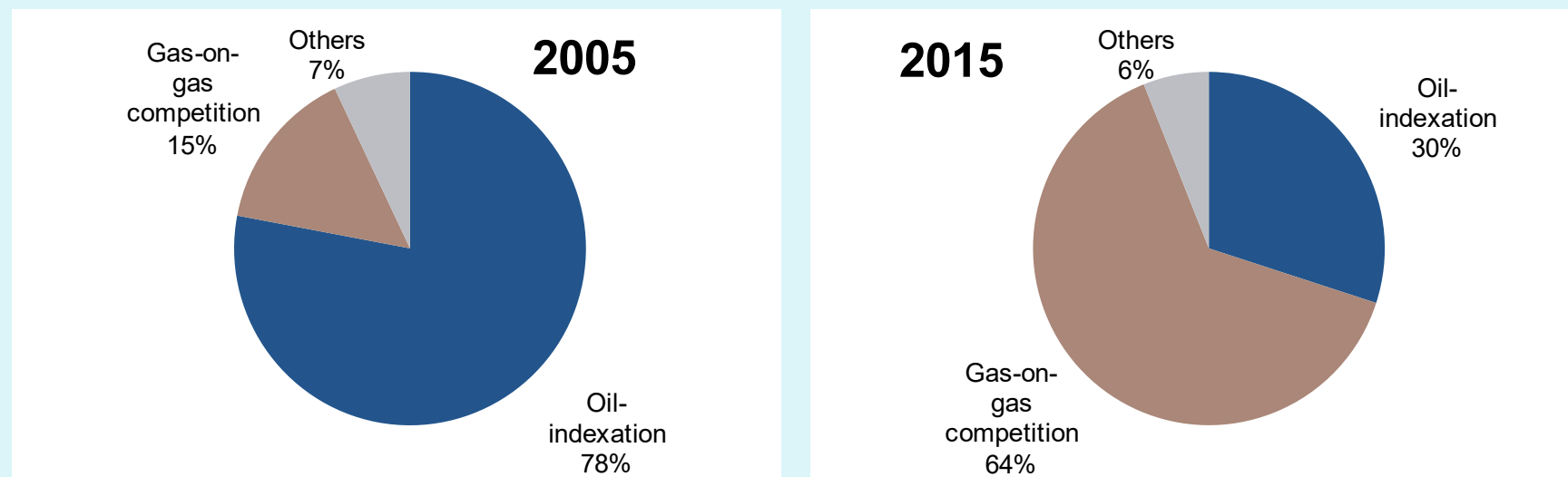
Source: BP Statistical Review June 2016, Gazprom, thierrybros.com

## ... make it difficult to find a win-win solution



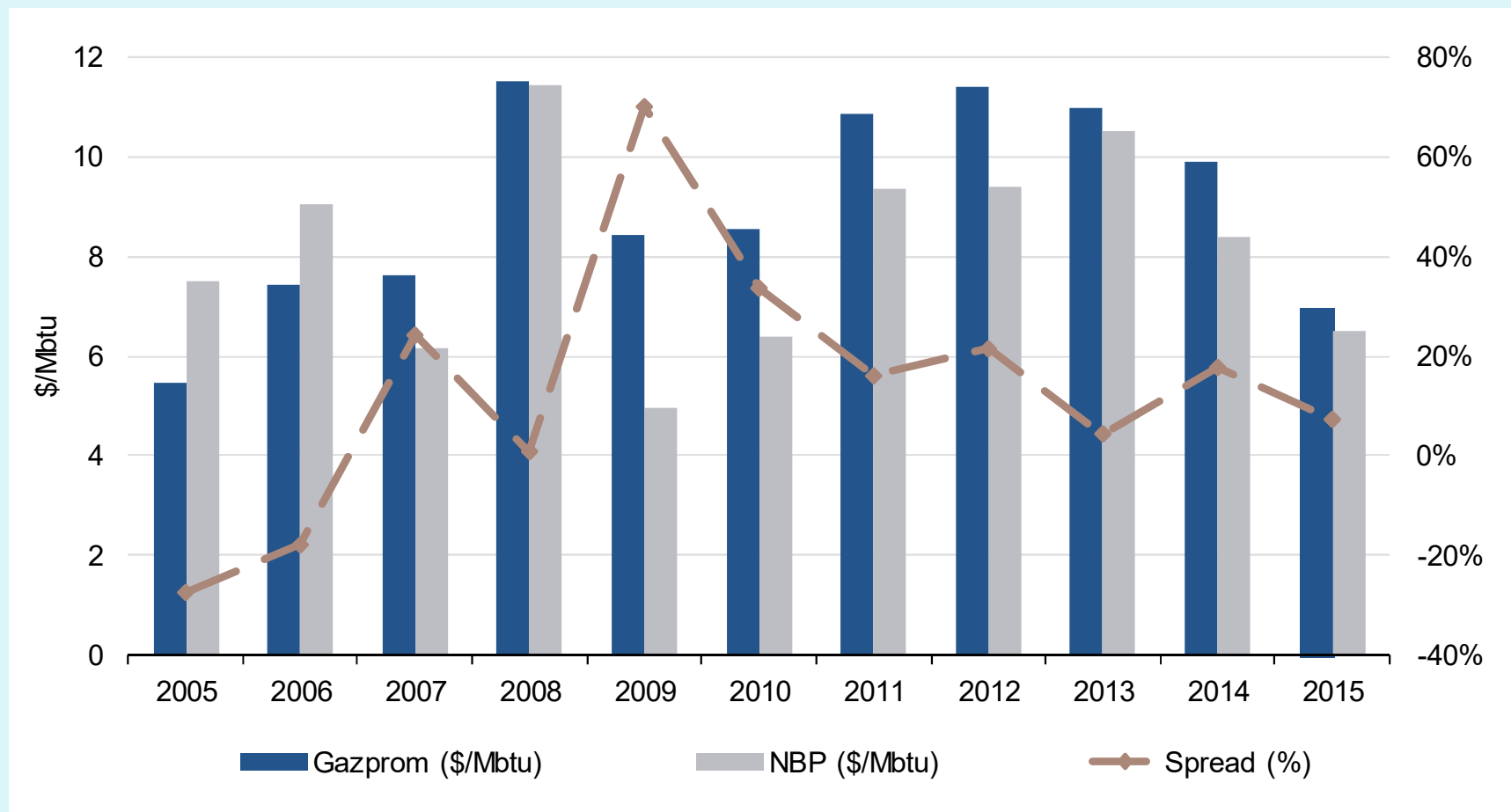


# European wholesale gas pricing...



Source: [thierrybros.com](http://thierrybros.com), IGU

## ... is influenced by Gazprom



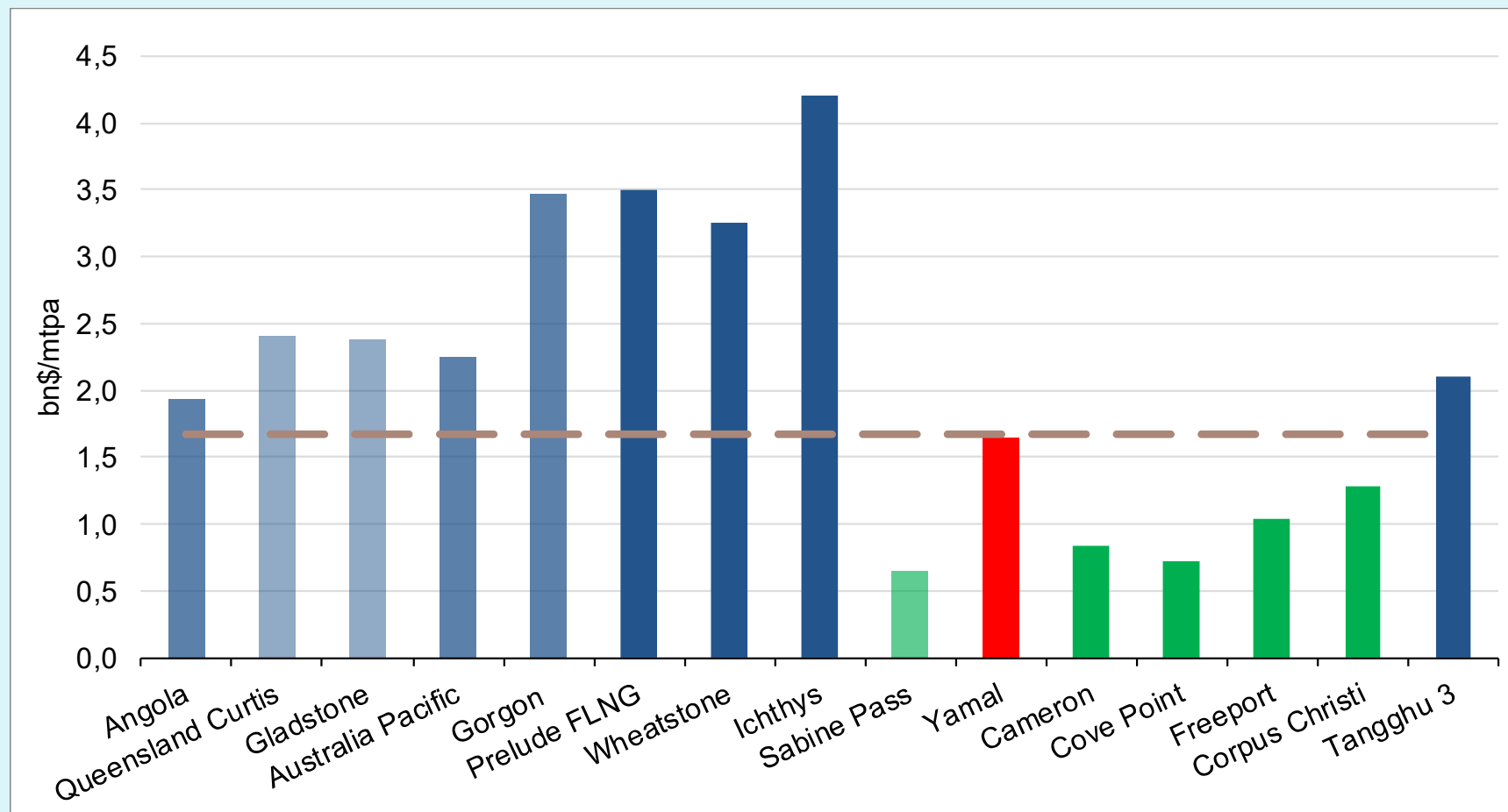
Source: [thierrybros.com](http://thierrybros.com), Gazprom, Datastream

# US #3 LNG producer in 2020e

US LNG export projects (with DoE and FERC status or construction update)	Capacity (mtpa)
Cheniere Sabine Pass – <i>Construction started in Q2 12 – Train 1 &amp; 2 in operation</i>	22
Sempra Cameron – <i>Construction started in Q3 14</i>	12
Dominion Cove Point – <i>Construction started in Q3 14</i>	5
Freeport – <i>Construction started in Q3 14</i>	14
Cheniere Corpus Christi – <i>Construction started in Q2 15</i>	9
Lake Charles (BG) ( <i>FTA, non-FTA &amp; FERC approved</i> )	15
Jordan Cove ( <i>FTA &amp; non-FTA approved – FERC filed</i> )	9
Gulf Coast LNG Export ( <i>FTA approved – non-FTA filed</i> )	21
Gulf LNG Liquefaction ( <i>FTA approved – non-FTA &amp; FERC filed</i> )	11
LNG Development, Oregon ( <i>FTA &amp; non-FTA approved – FERC filed</i> )	10
Southern LNG Elba Island ( <i>FTA &amp; FERC approved – non-FTA filed</i> )	4
Golden Pass ( <i>FTA approved – non-FTA &amp; FERC filed</i> )	16
CE FLNG ( <i>FTA approved – non-FTA filed</i> )	8
<b>Total US</b>	<b>More than 400</b>
<b>Total Canada</b> (11 projects approved)	<b>More than 200</b>

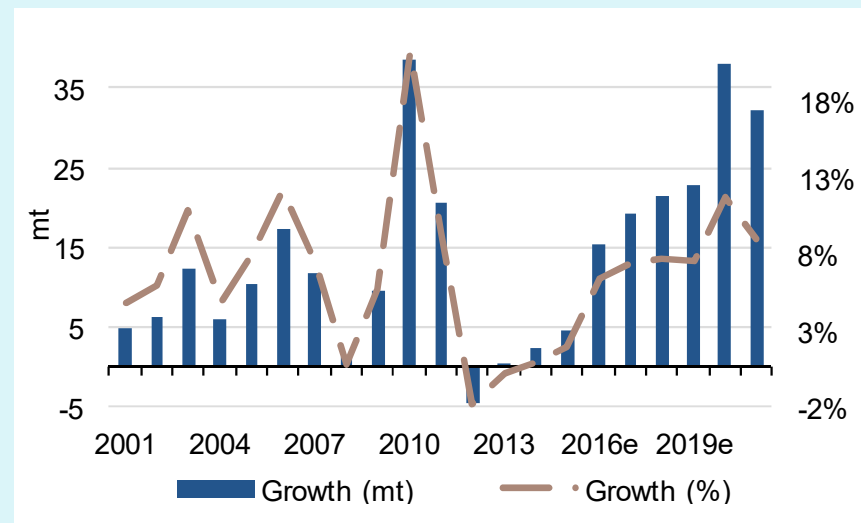
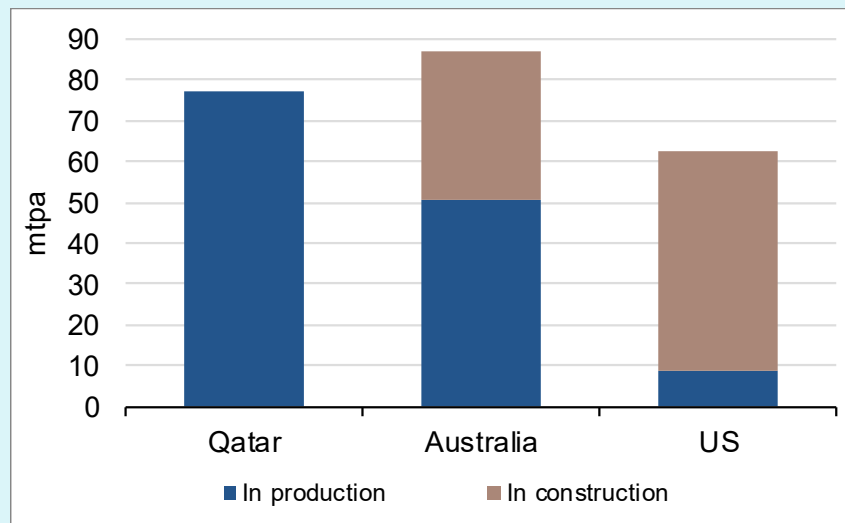
Source: [thierrybros.com](http://thierrybros.com), US DoE, Canada National Energy Board

# New liquefaction FID is unlikely



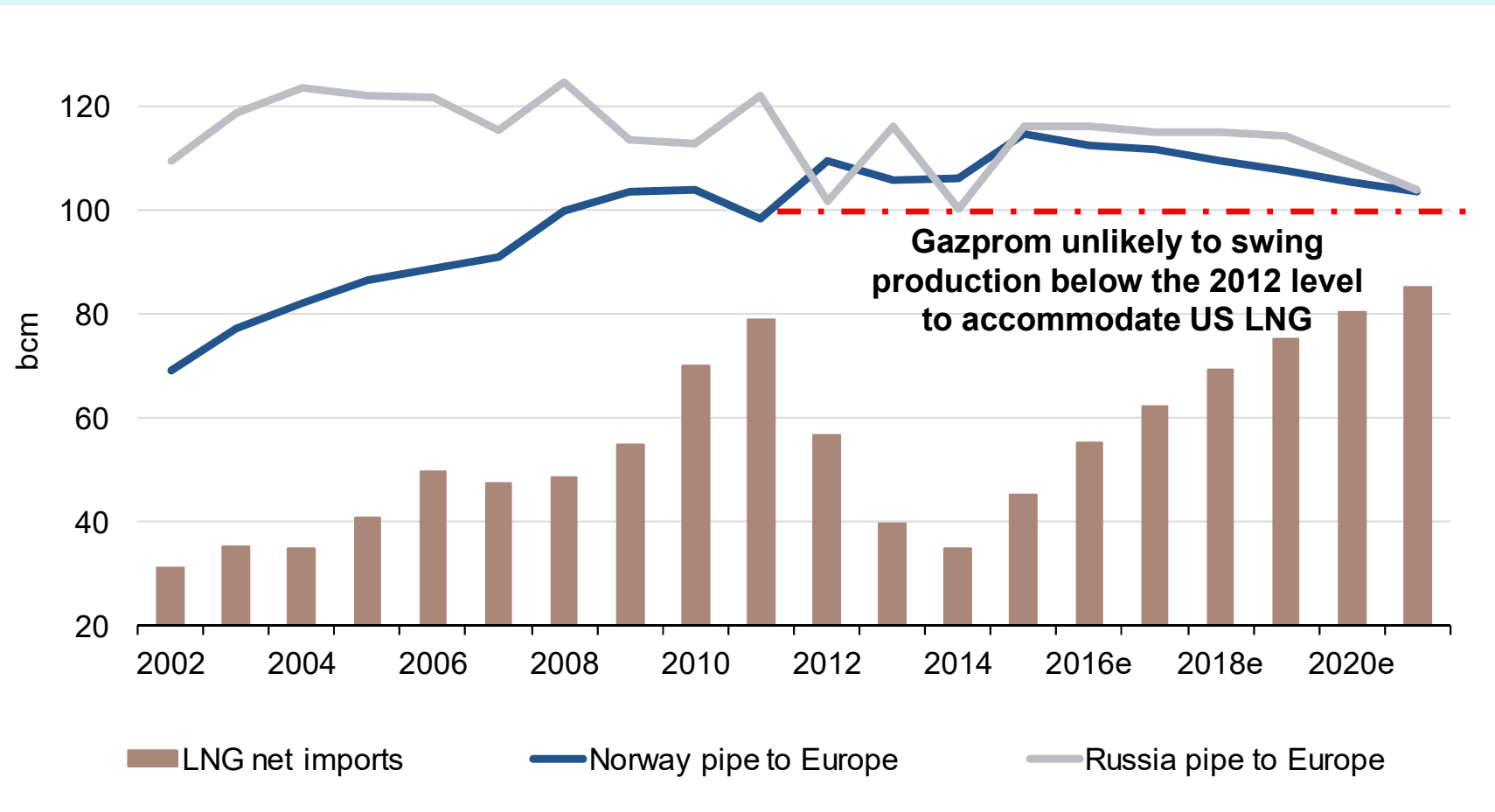
Source: [thierrybros.com](http://thierrybros.com), company data

# The speed of LNG supply growth...



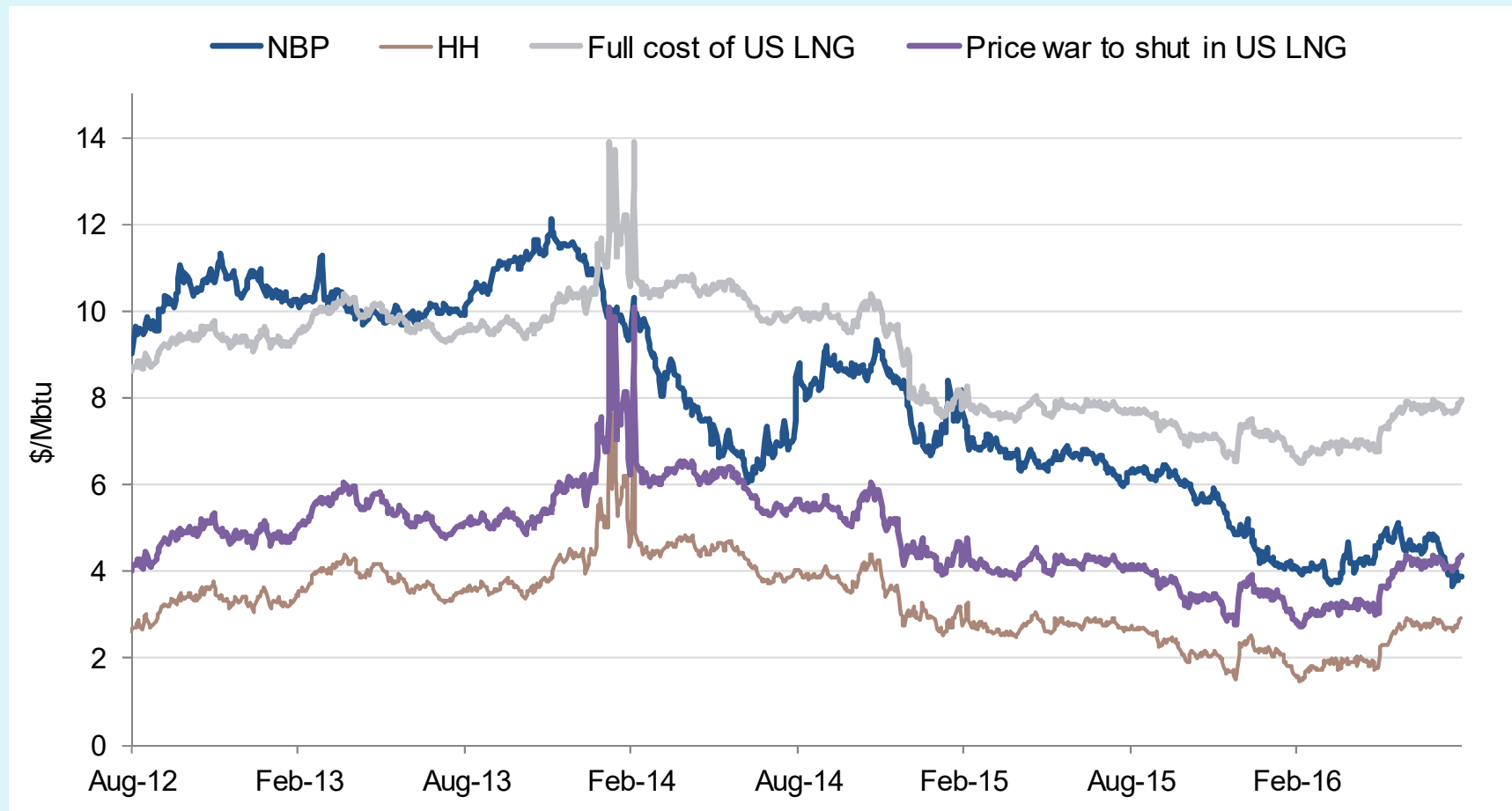
Source: *thierrybros.com*, *GIIGNL* for historical data

## ... and the rate at which it reaches Europe...



Source: SG Cross Asset Research, IEA for historical data

# ...will dictate how Russia reacts



Source: SG Cross Asset Research/Commodities, Datastream

## 3 options for the duopoly to manage prices

High

7\$/Mbtu min

- Tightening supply
- Increase producers' rent
- 2012-2013
- **Prompted new FIDs**

Med.

c.4\$/Mbtu

- Swinging supply
- Demand destruction
- Since 2014
- **Most profitable in the long term**

Low

4\$/Mbtu max

- Use of spare capacity
- Price war to shut in US LNG
- Lower revenues
- **Can be done sporadically**



# Thank you

