

Market Reporting

Consulting

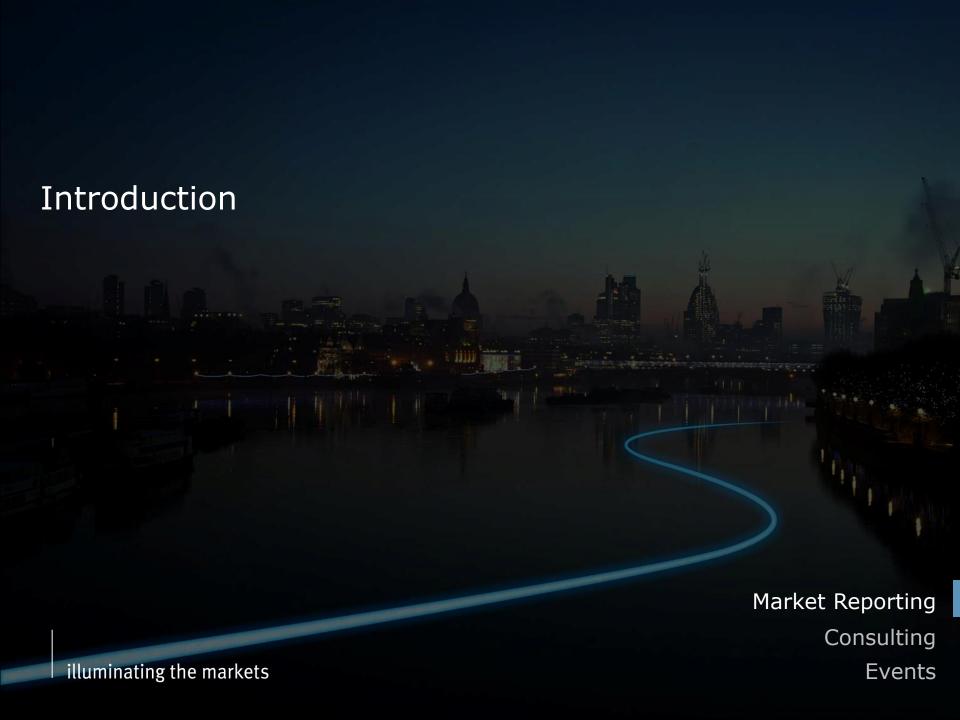
Bogota

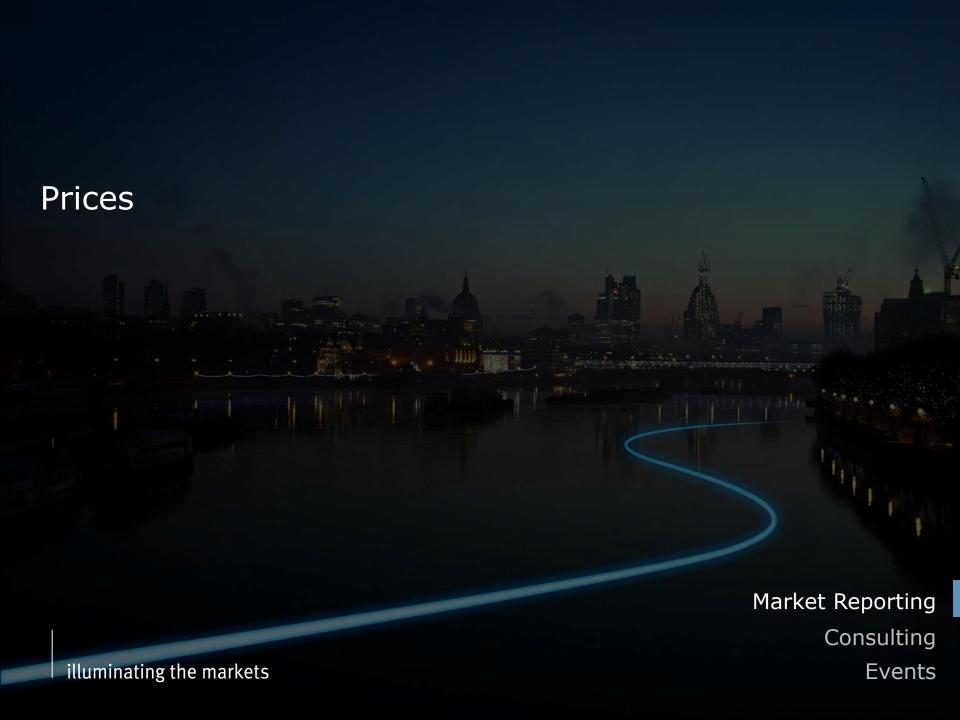
Beijing Tokyo

Dubai

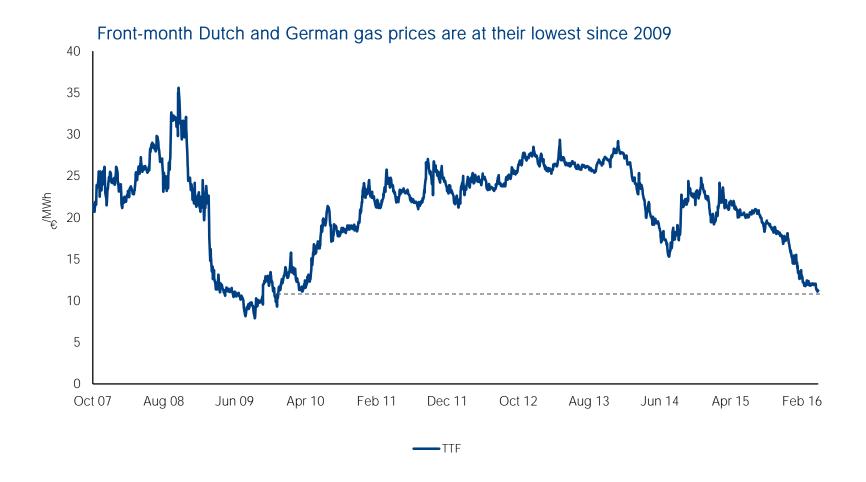
Astana Kiev Porto

illuminating the markets **Events** 

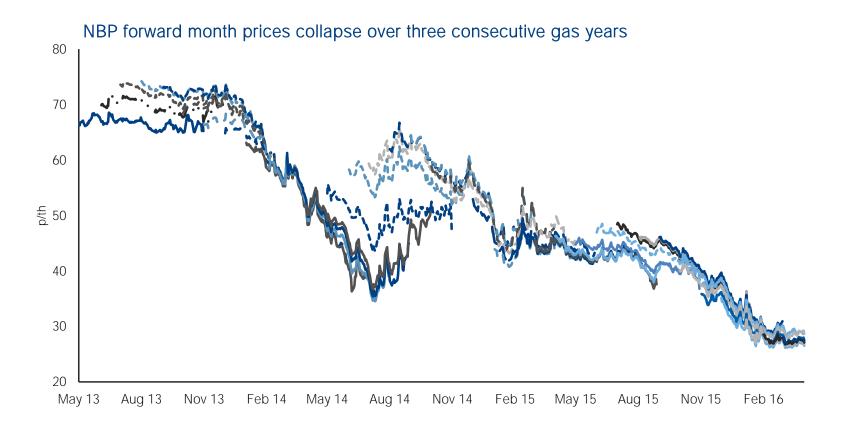




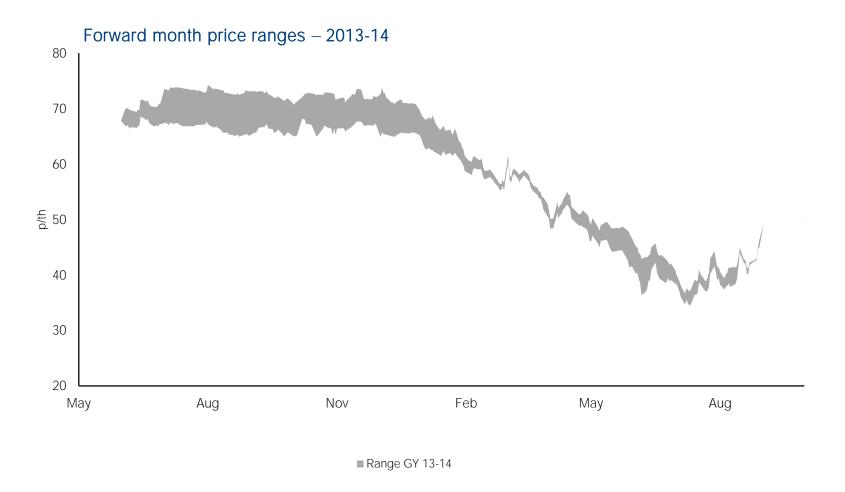
## European gas prices continue to slide



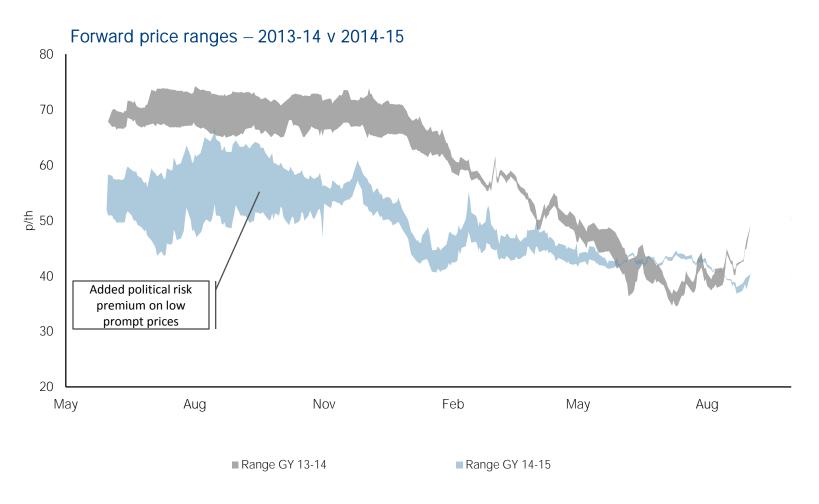




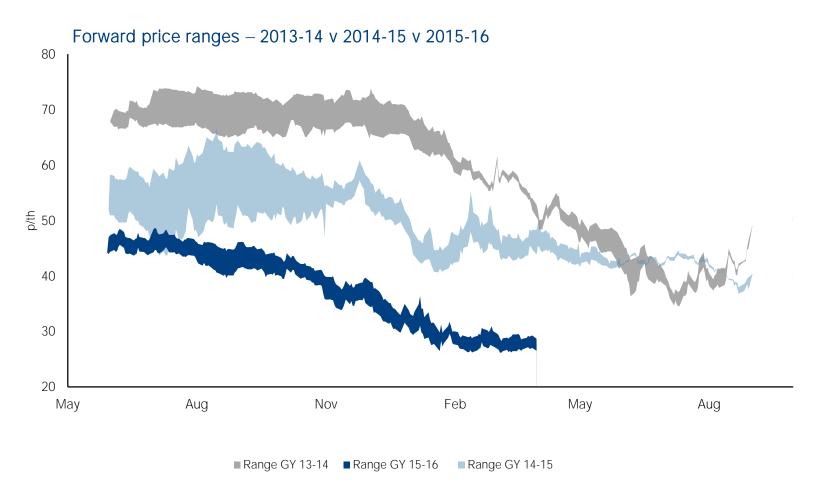






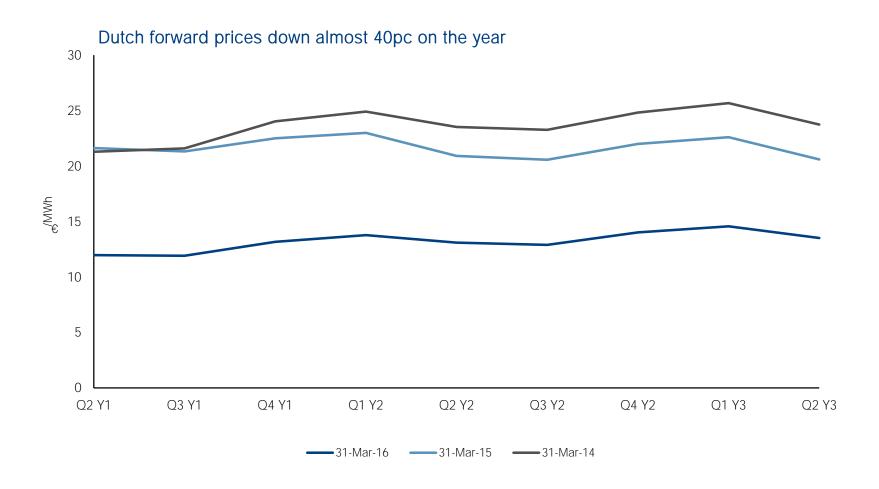






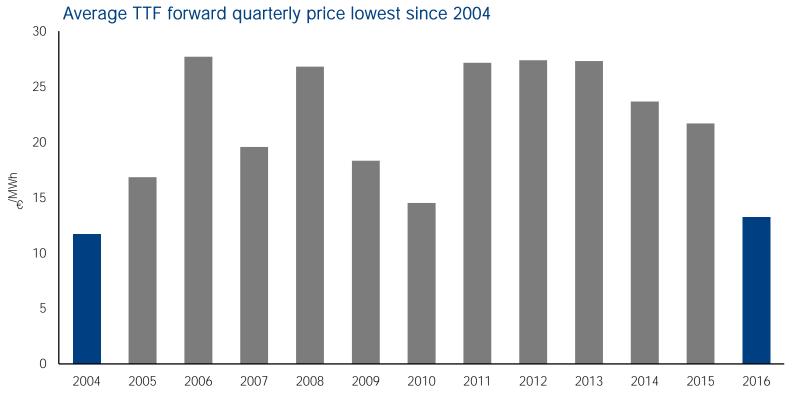


# Forward prices are also lower





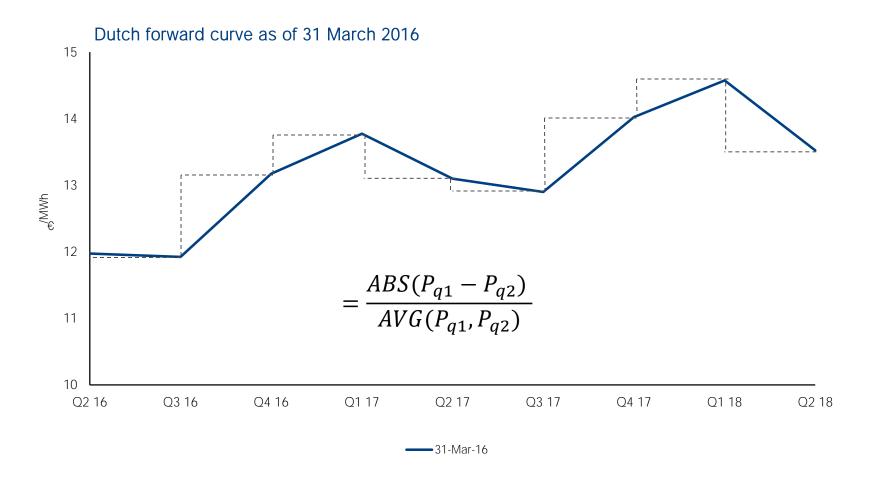
## Forward prices are also lower



Average forward quarterly prices at 31 March

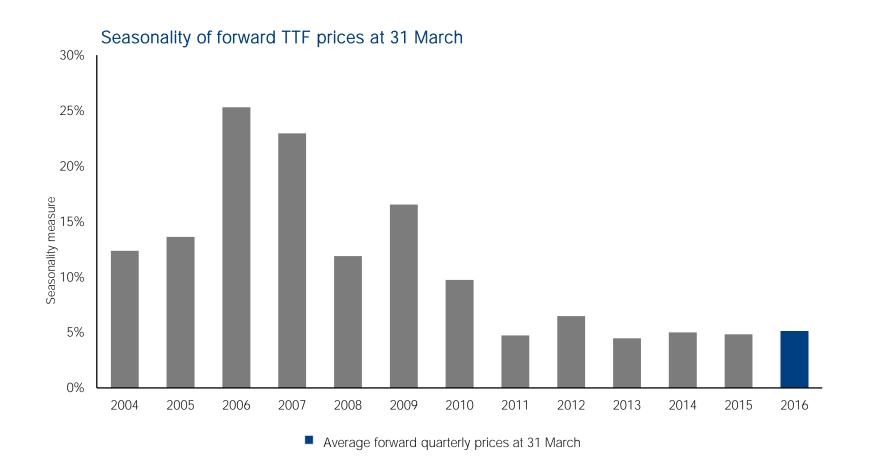


## Measuring seasonality



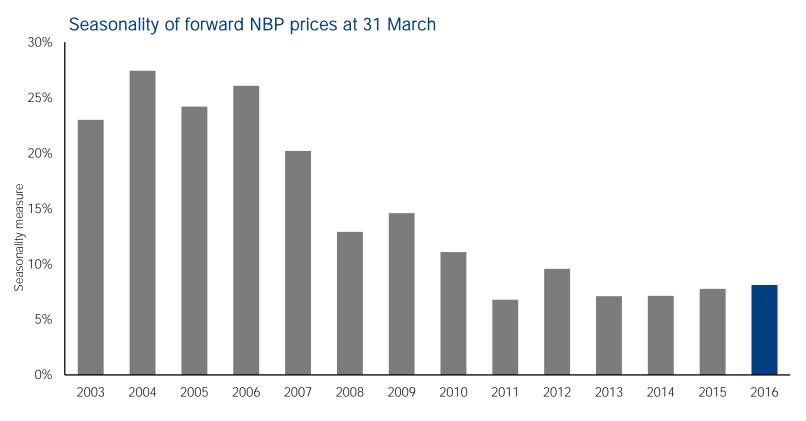


## Forward seasonality also in decline





# Forward seasonality also in decline

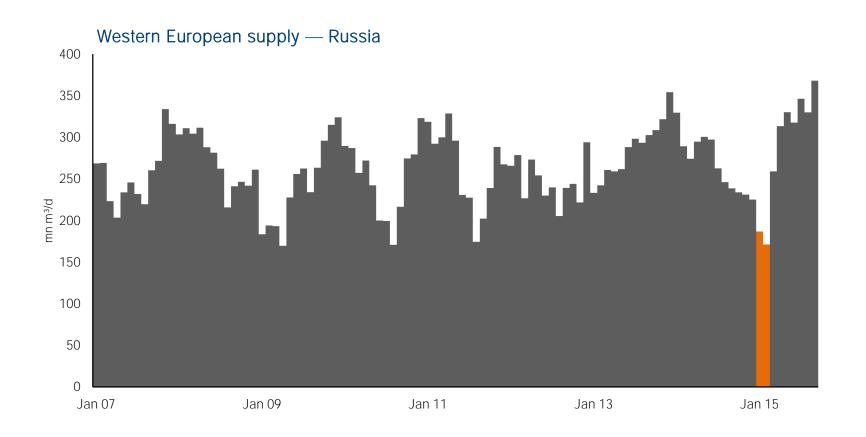






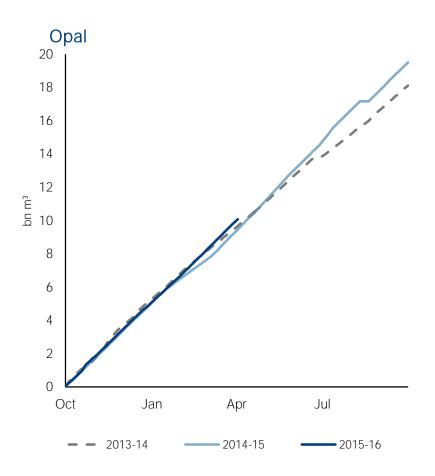
# Russia and the 2015-16 winter Market Reporting Consulting illuminating the markets **Events**

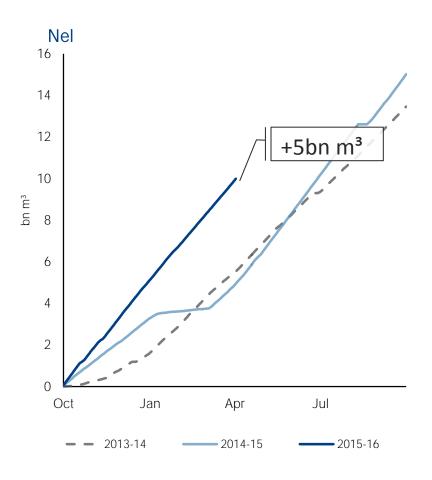
## The historic dip in peak-winter supply





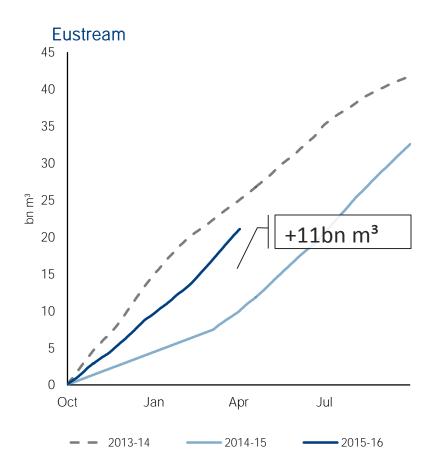
### Nordstream deliveries

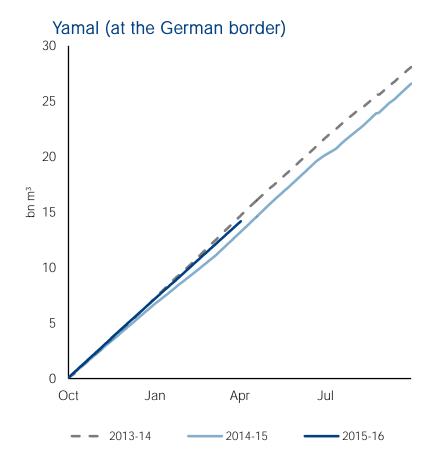






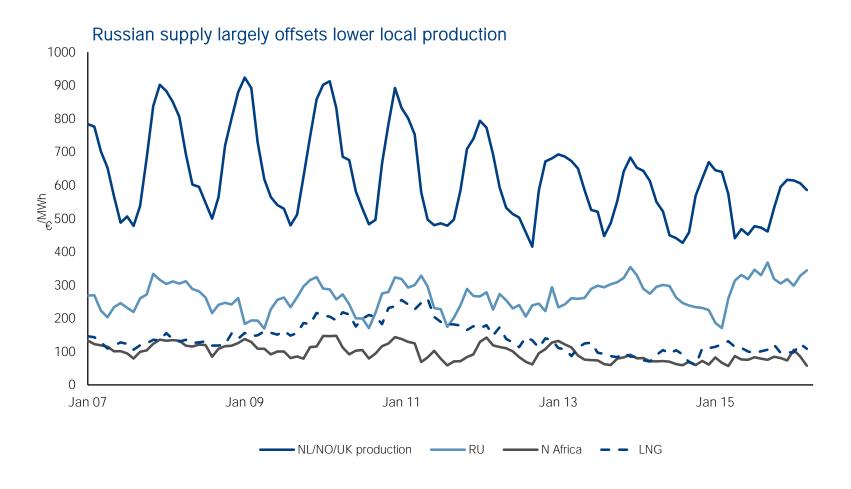
#### The old onshore routes





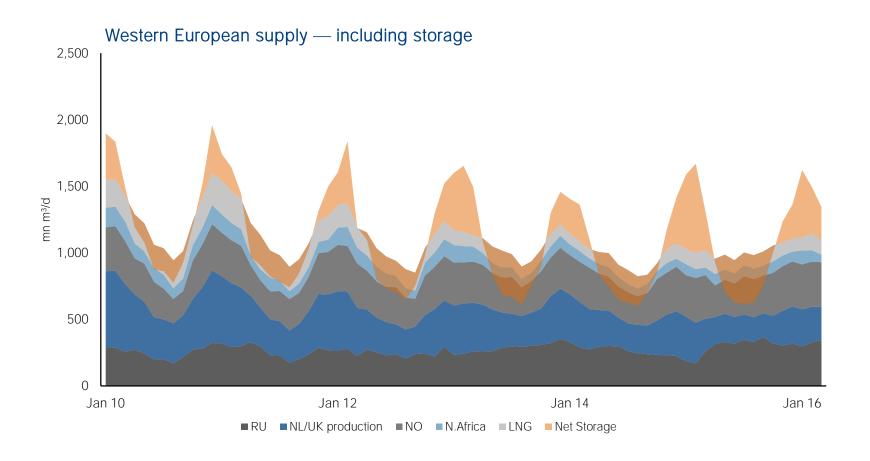


## European supply sources



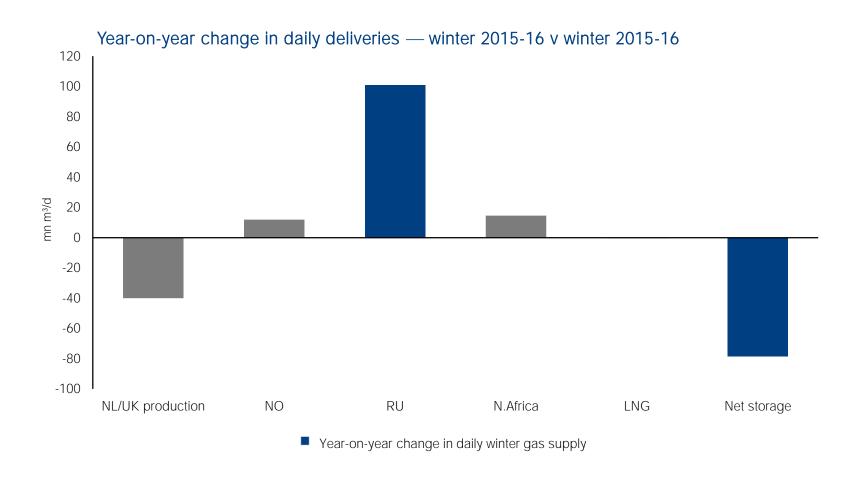


# European supply sources



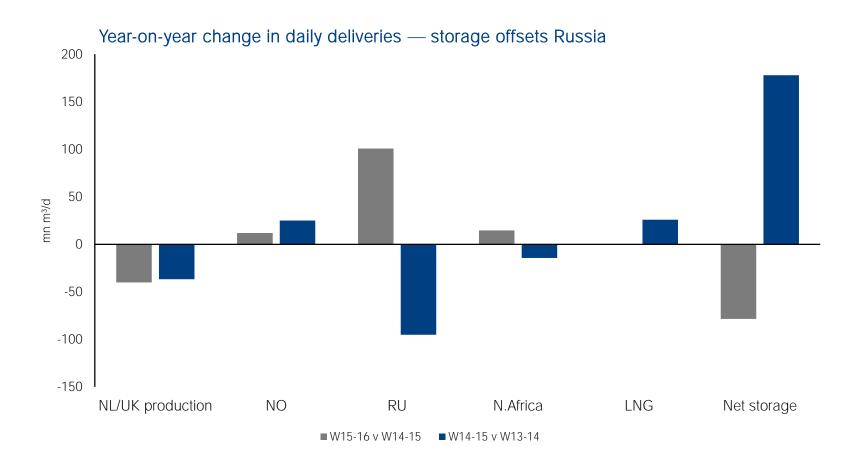


## Russian supply offsets storage — LNG unchanged

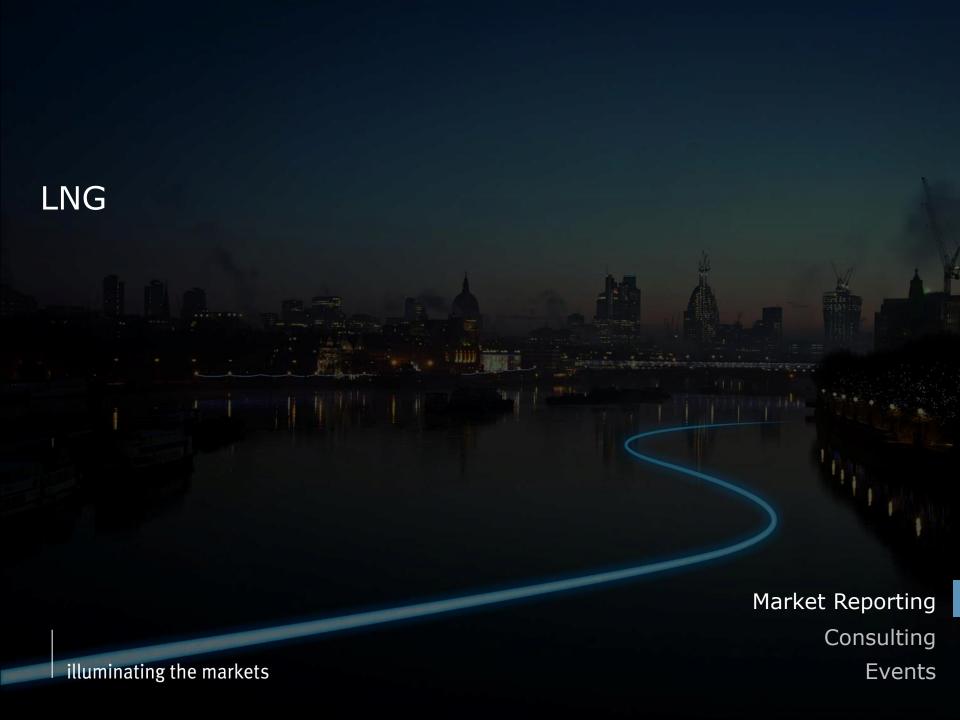




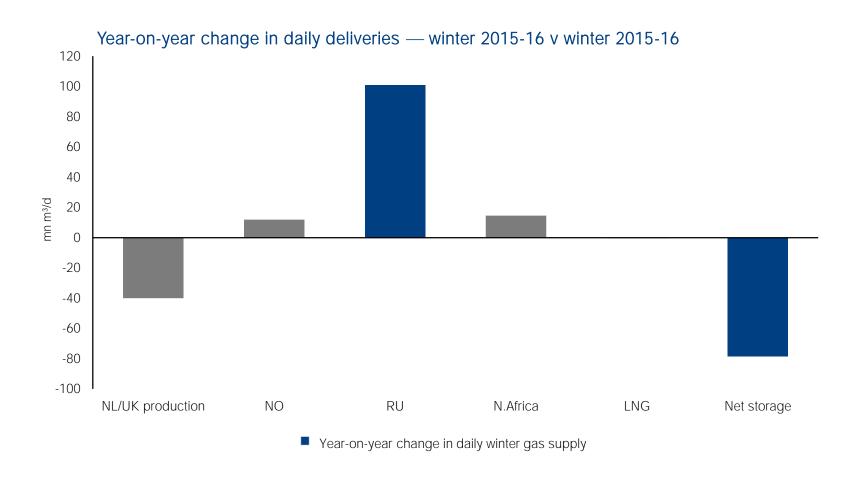
## The year before, everything was reversed





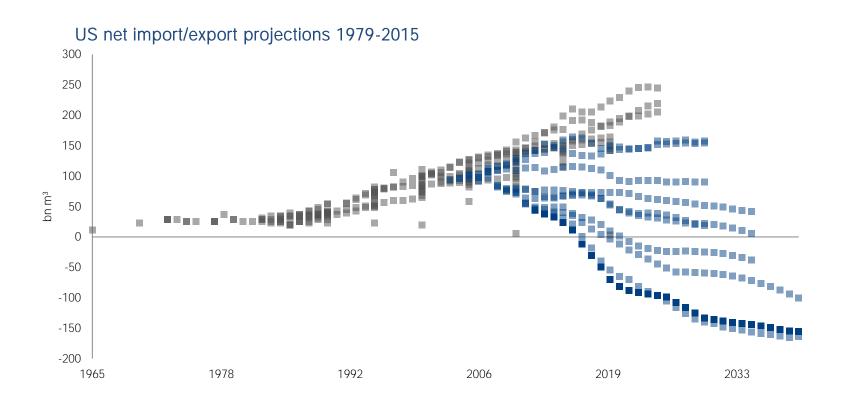


## Russian supply offsets storage — LNG unchanged

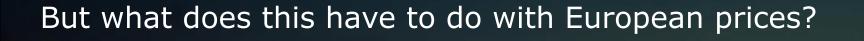




## Evolving US role in the global market



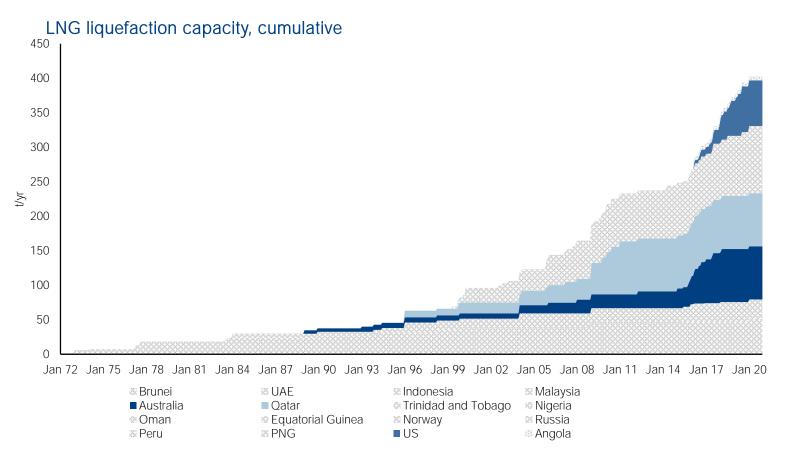




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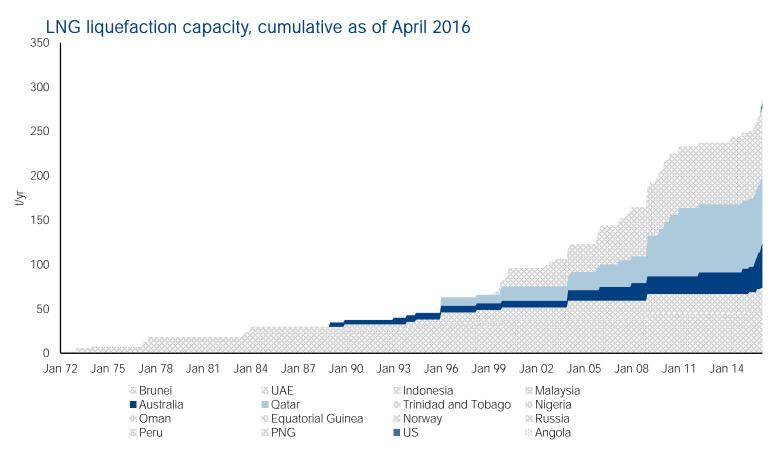
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## Three stage growth of LNG production capacity



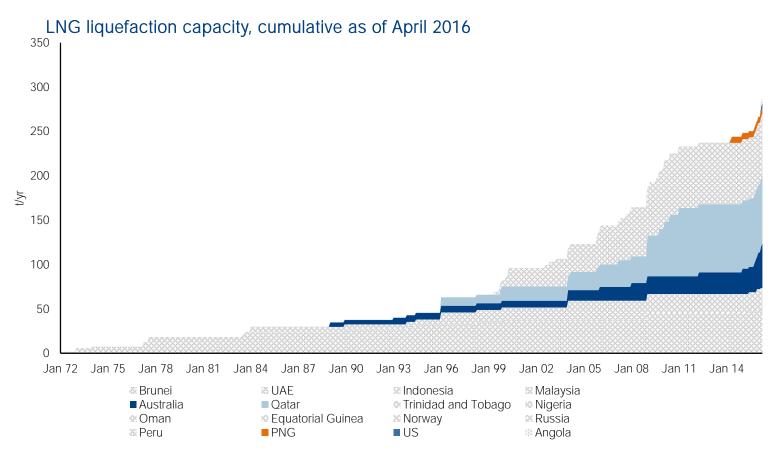


## Three stage growth of LNG production capacity



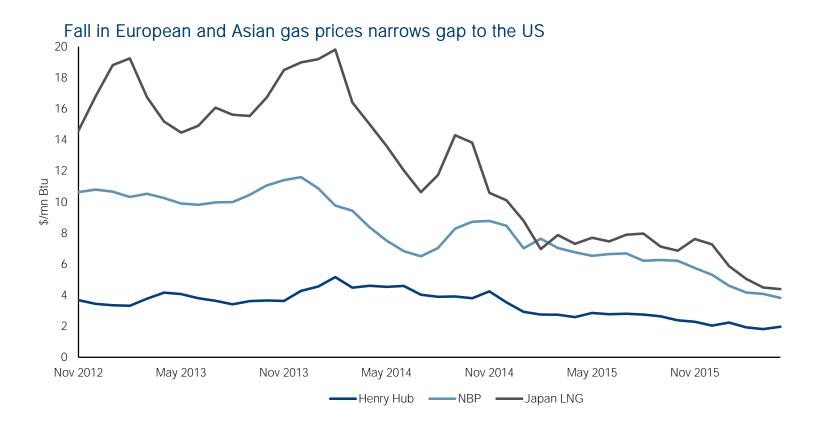


## Three stage growth of LNG production capacity





## Global gas prices are already coming together





## Uniper — half of new LNG will come to Europe

"... we believe that over 50pc of this additional volume will find its way into Europe — either directly or by displacing other swing suppliers which are currently delivering into Asia"

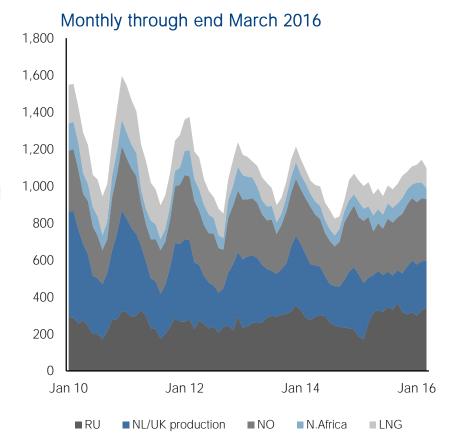
Richard Baylis, head of LNG,
 Uniper Global Commodities, LNG 18
 conference



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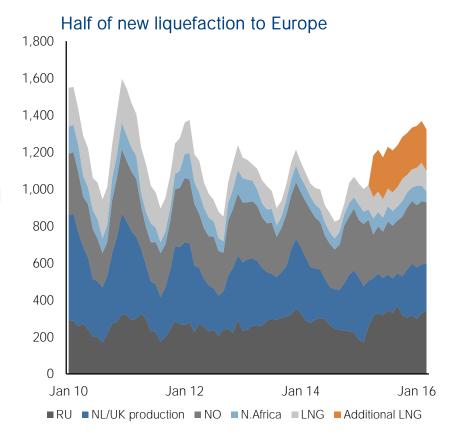




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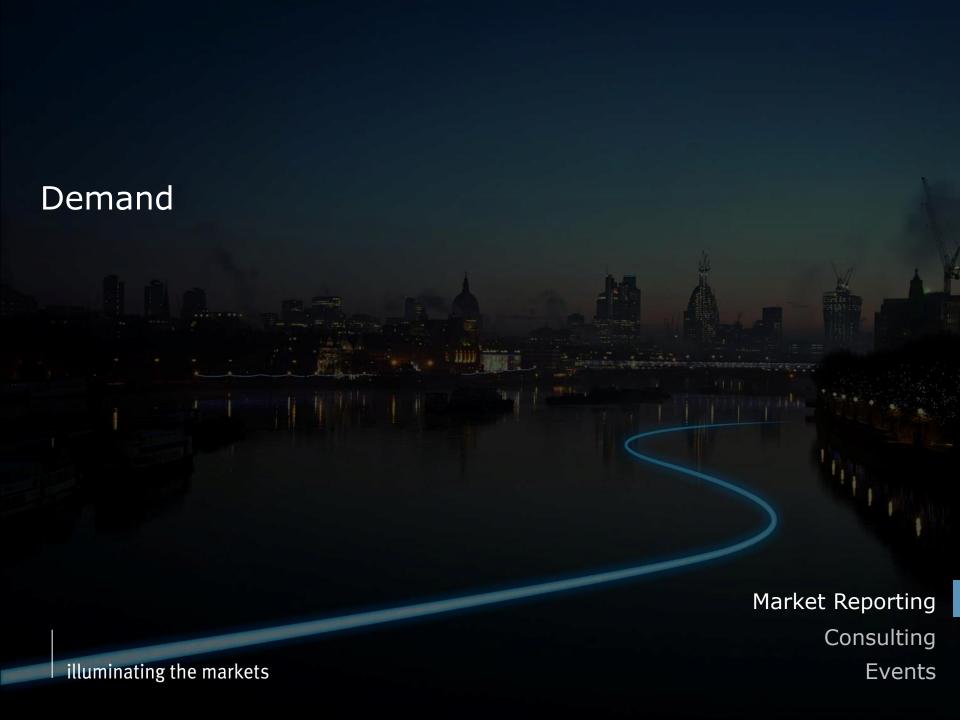
"... we believe that over 50pc of this additional volume will find its way into Europe — either directly or by displacing other swing suppliers which are currently delivering into Asia"

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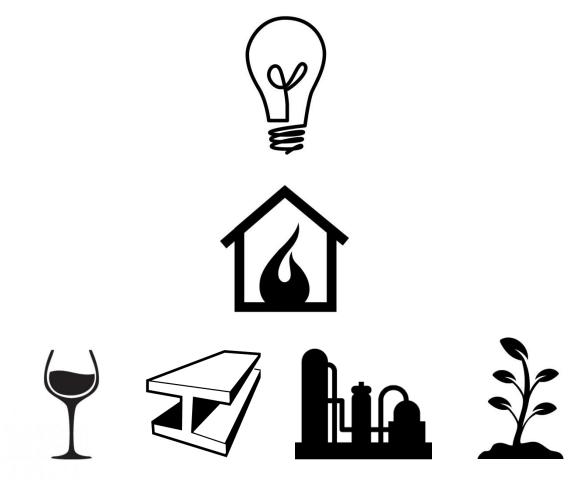


Assumes half of  $130 \text{mn t/yr} = \text{approximately } 226 \text{mn m}^3/\text{d of sendout without seasonal swing}$ 

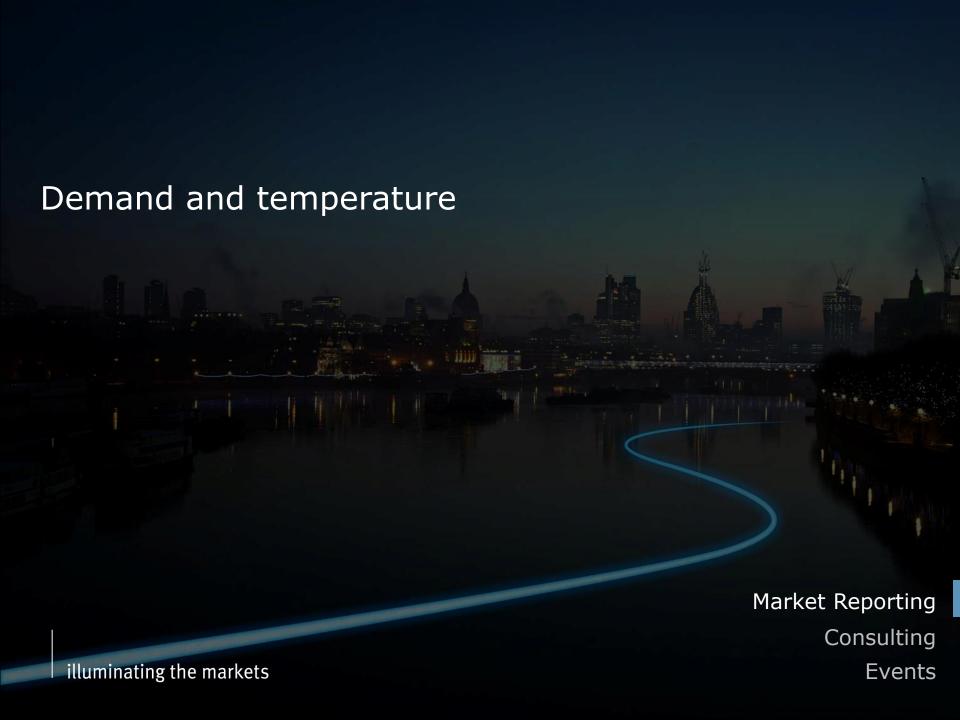




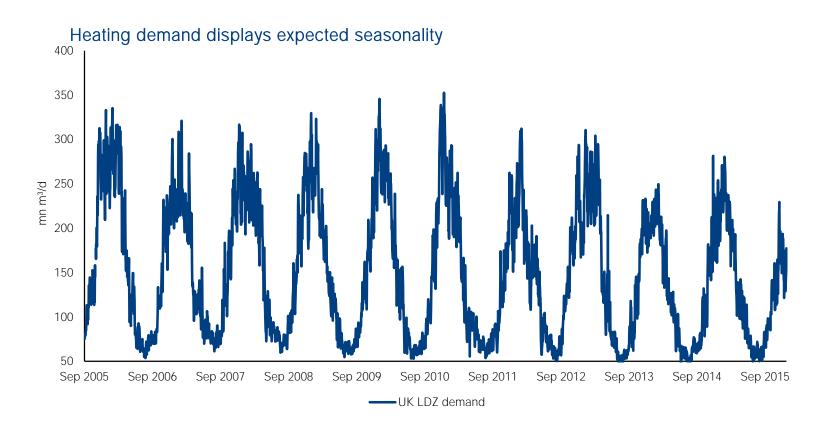
## Gas demand



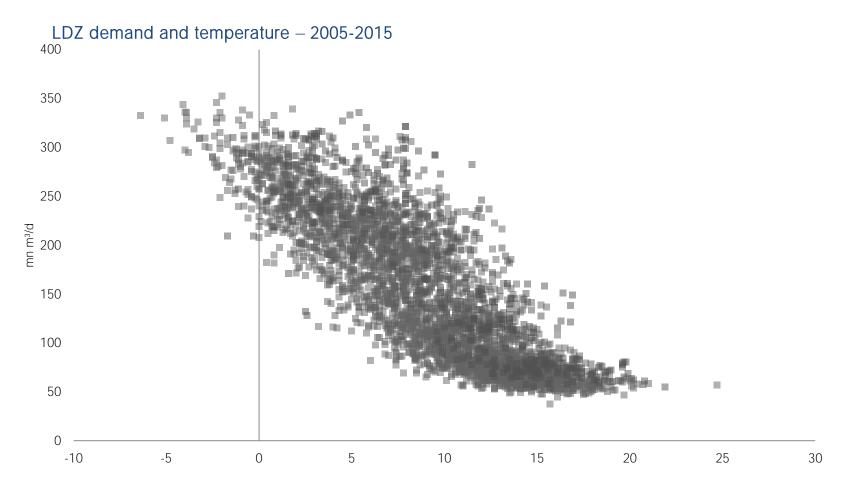




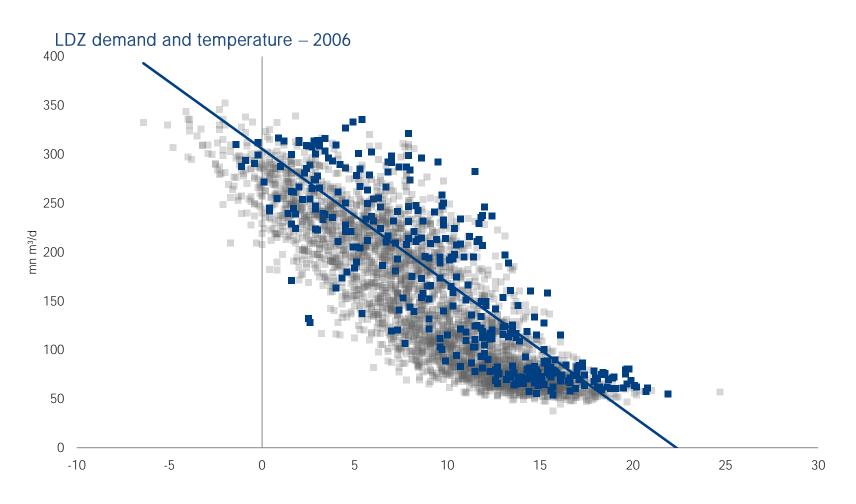
## UK heating demand



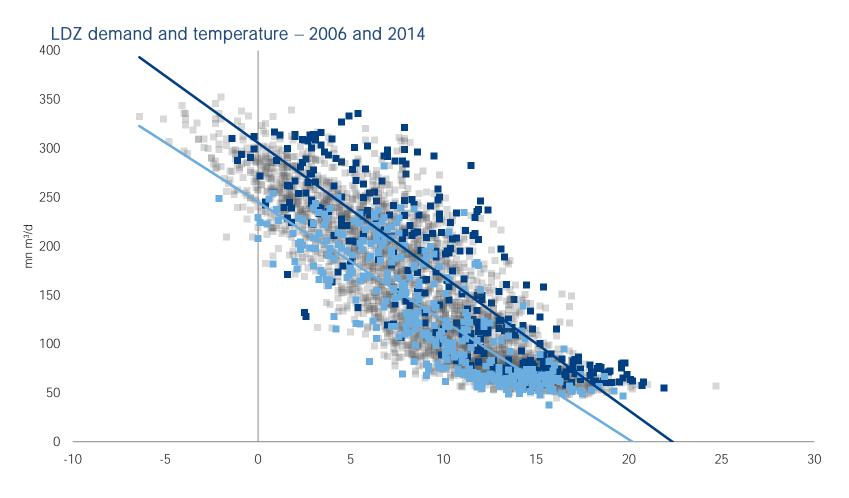




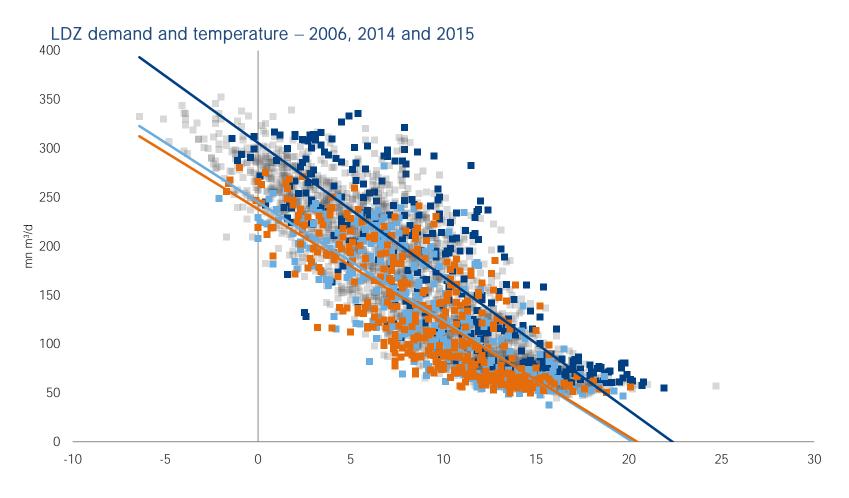




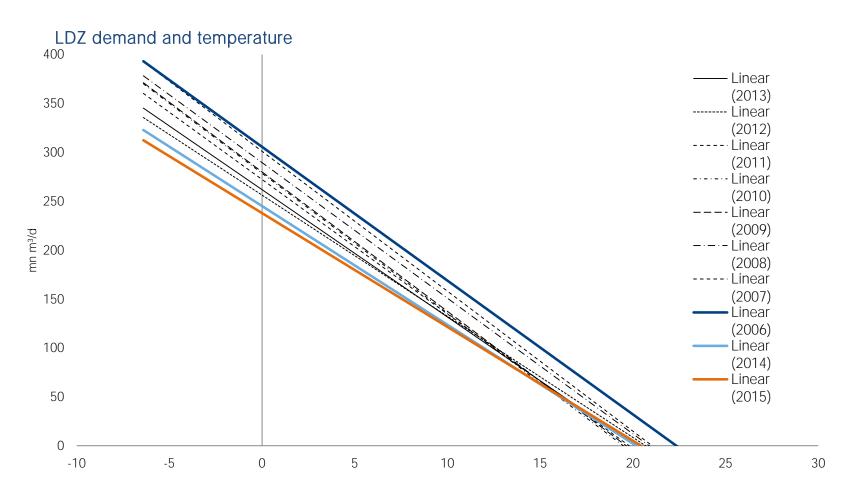






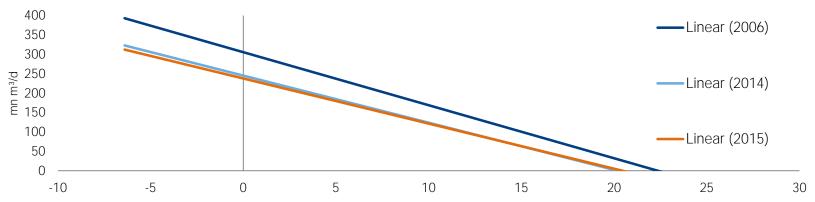












# Implied demand reduction (2006-2015) -10 -20 -30 -40 E -50 -60 -70 -80 -90

5



30

25

-5

0

-10

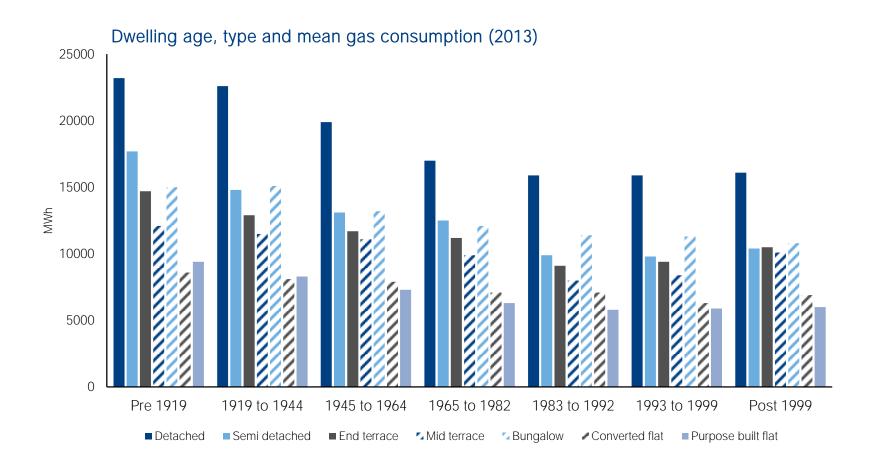
10

15

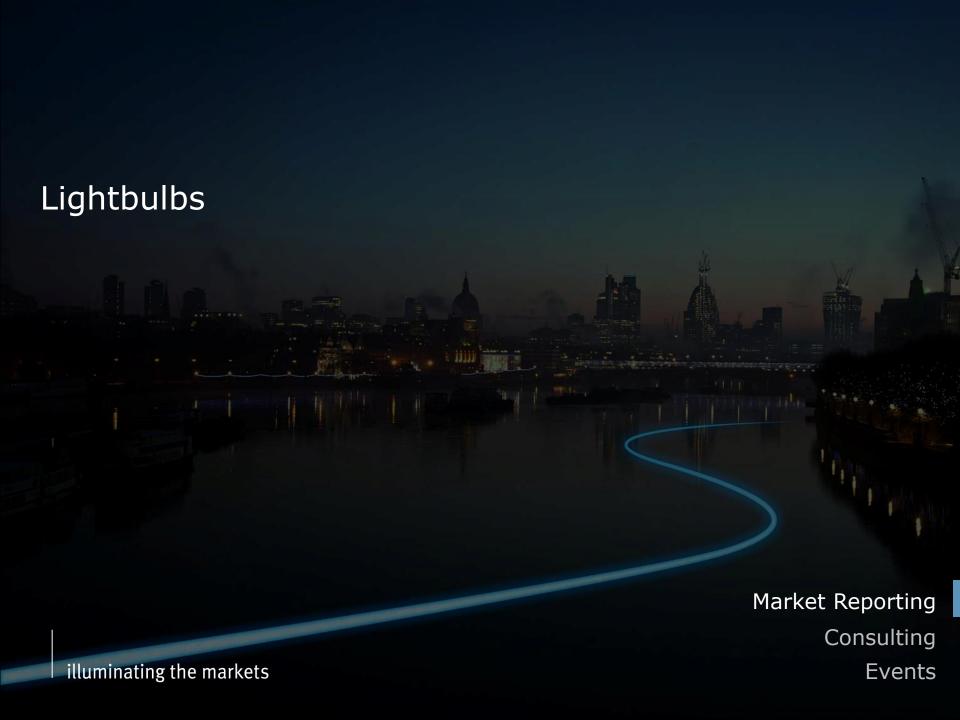
20



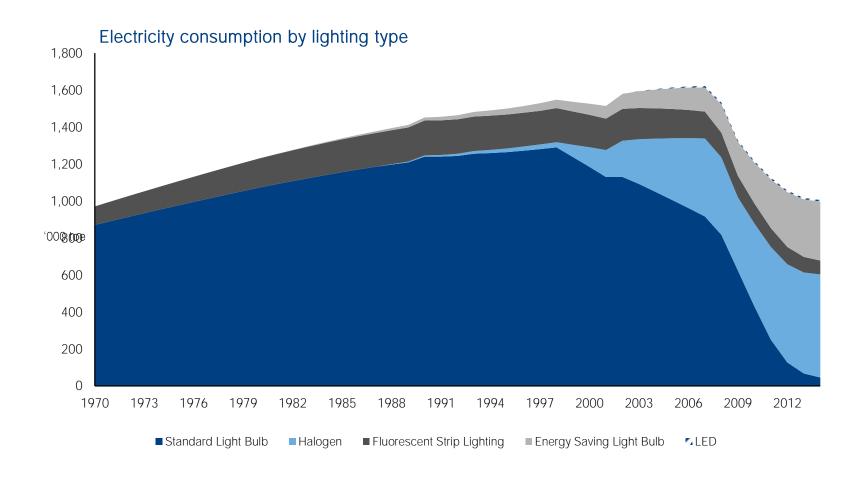
### Property age, type and gas demand







### Energy efficiency in lighting



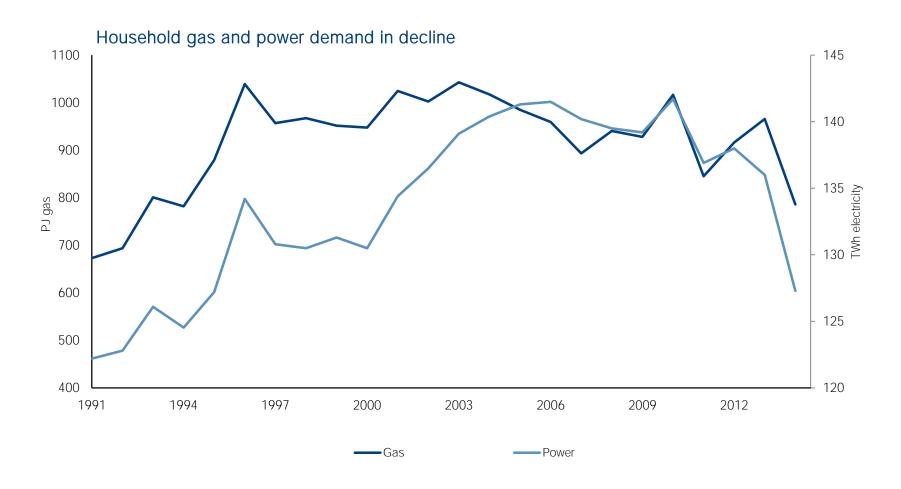


## German consumption is also falling

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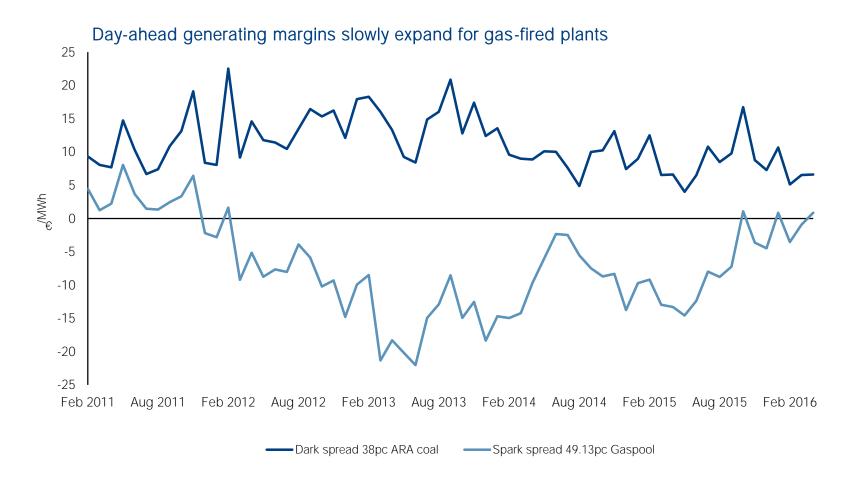
### German household gas and power demand falling





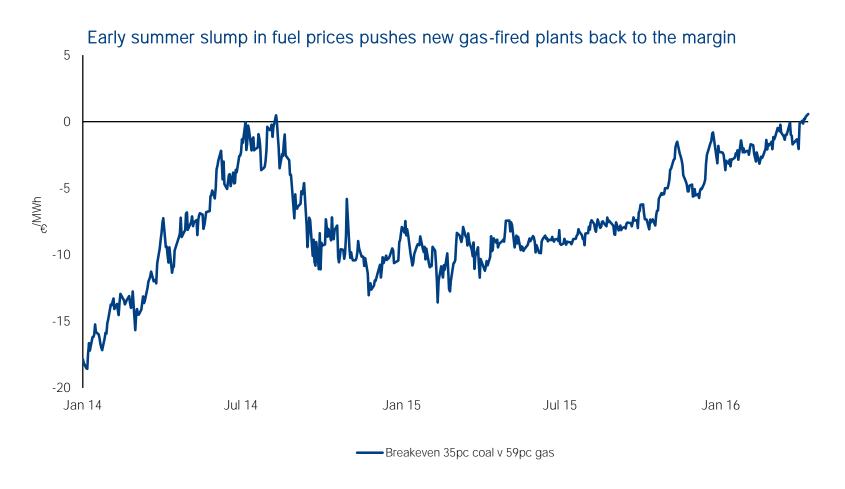


### Spark and dark spreads less discouraging



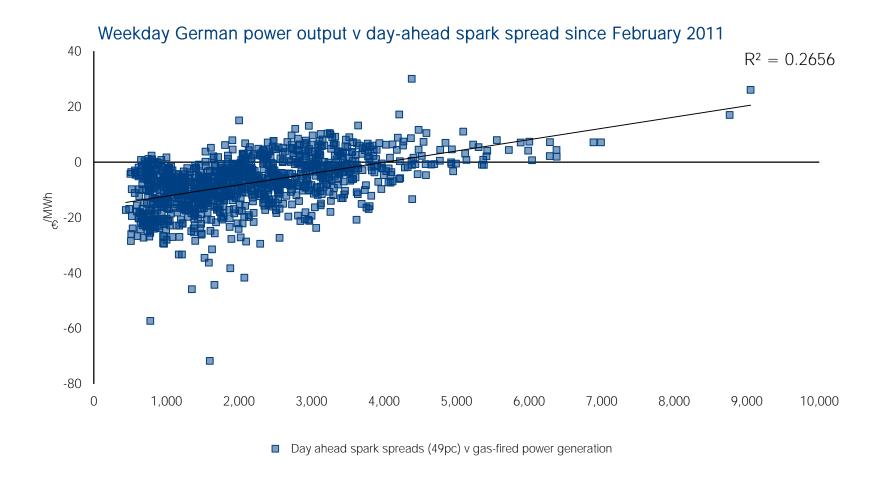


### New CCGTs can compete with older coal (ish)





### But CCGTs run even when sparks are negative...



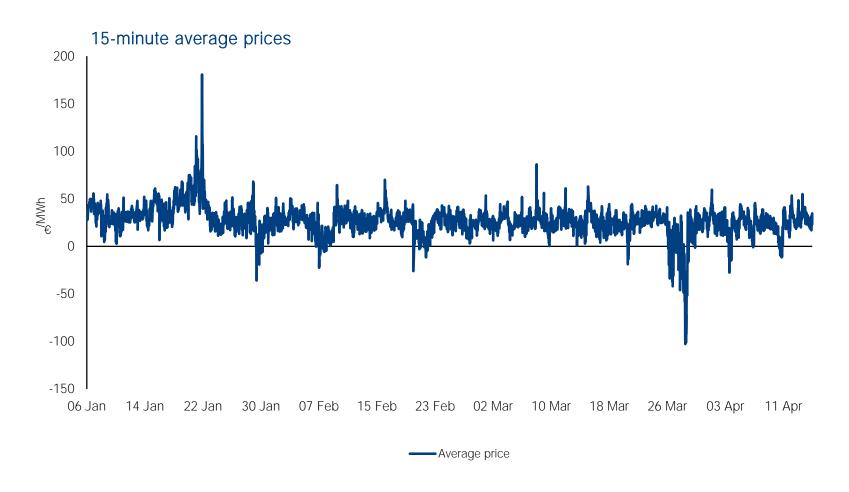


# Intraday power trade and generating margins

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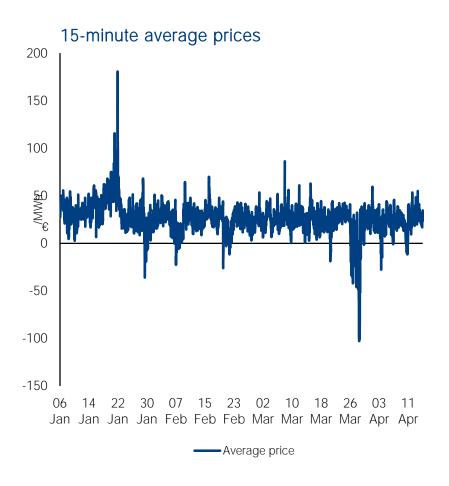
**Events** 

### German intra-day prices





### Towards an intra-day spark spread



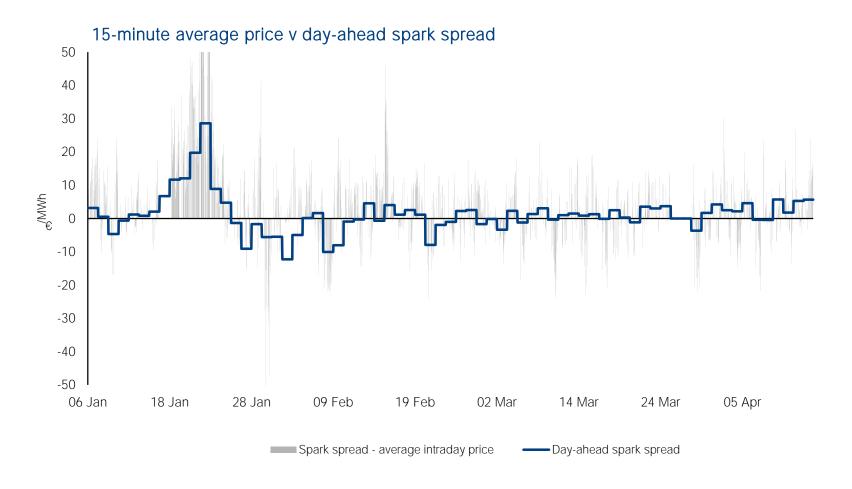
For weekdays between 7am and 7pm since 6 January:

The NCG or Gaspool within-day market traded within 15 minutes of each 15-minute power delivery period start for 43pc of periods.

A spark spread for a 50pc efficient CCGT was calculated using the average of those gas prices and the high, low, last and average price for each 15-minute power contract.



### German intra-day prices







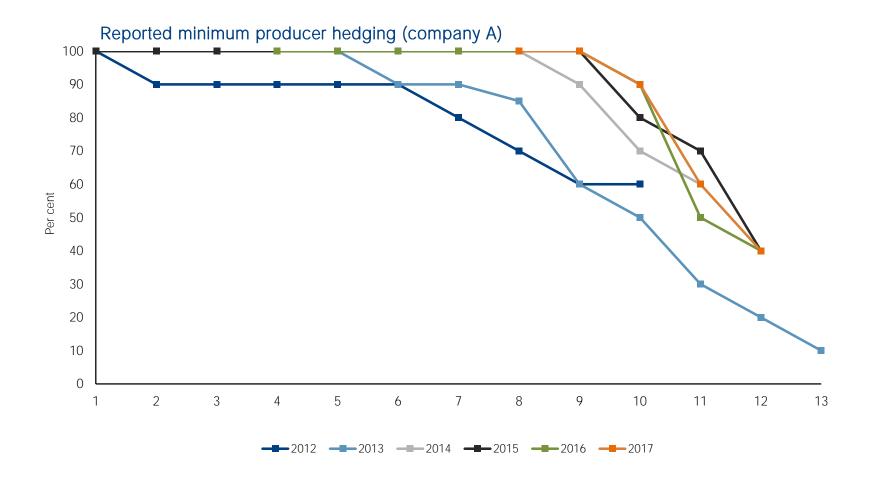
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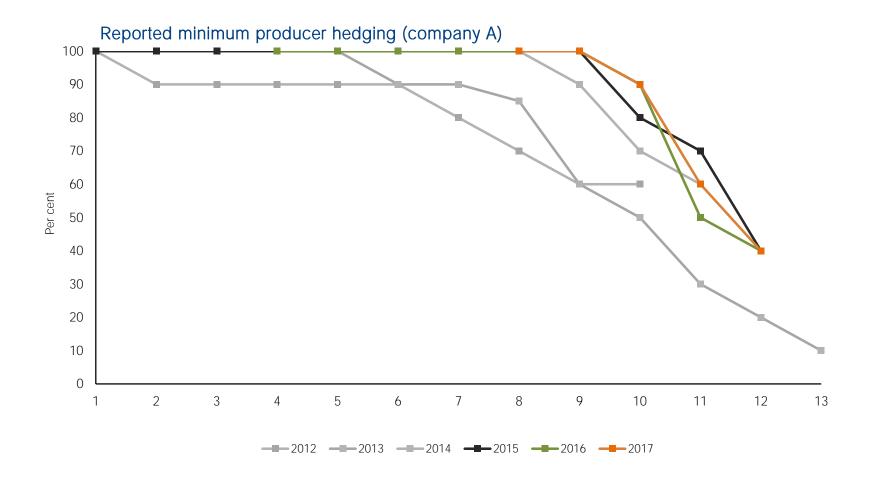
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### Producer hedging



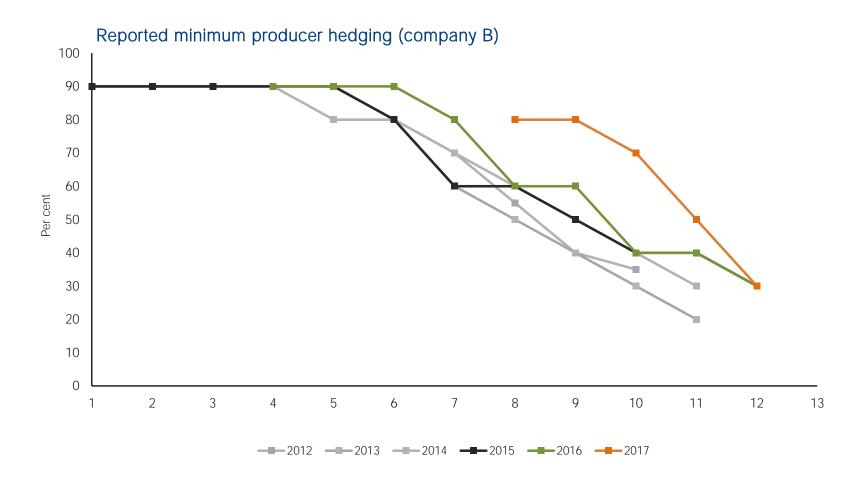


### Producer hedging has accelerated



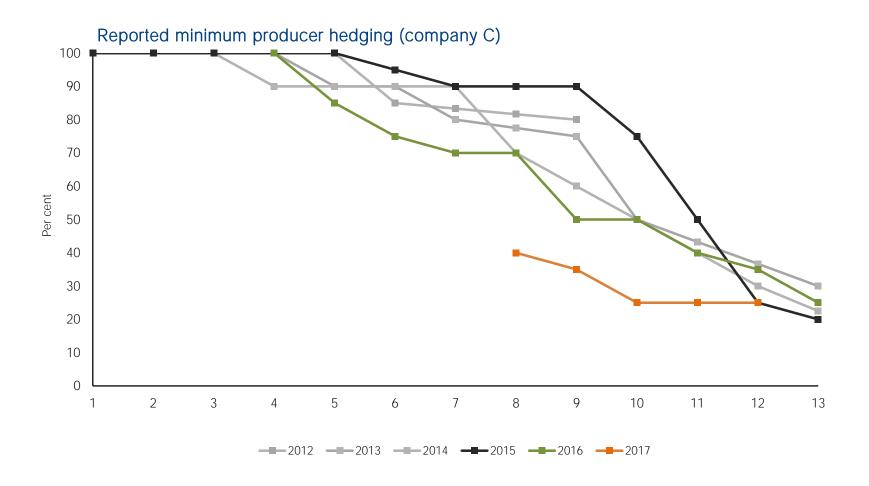


### Producer hedging has accelerated

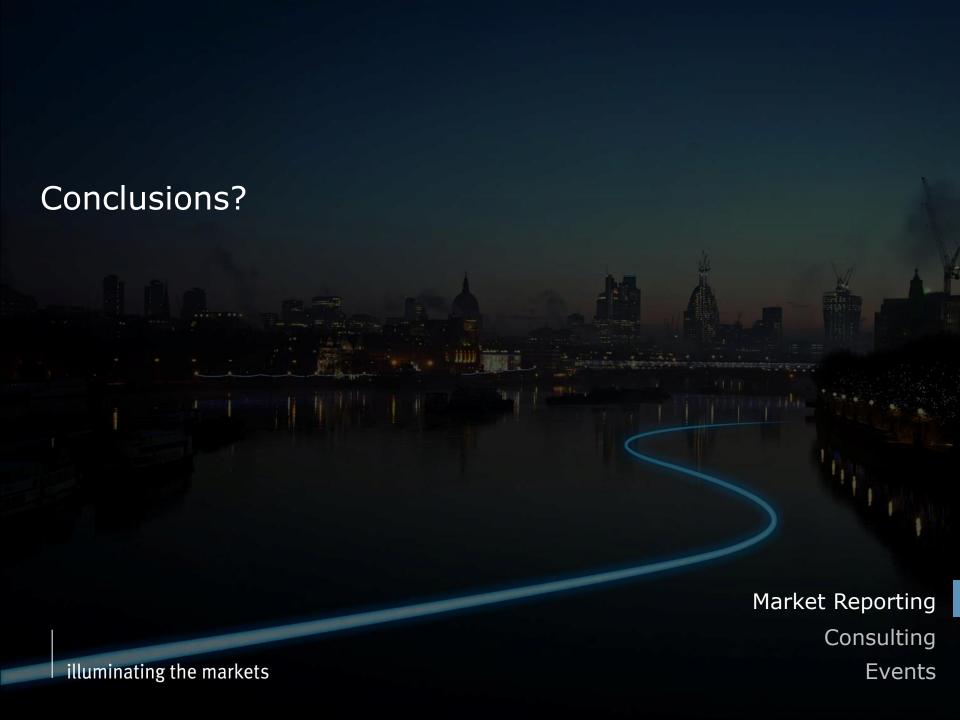




### The trend is not universal







# Matthew Monteverde VP — Commodity markets

Email: matthew.monteverde@argusmedia.com

Phone: +44 20 7780 4225

Office: London

Web: www.argusmedia.com

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