



# Assessing the impact of the Groningen production cap – What does this mean for European gas trading?

Amsterdam, 18 October 2016

Data Source: Gasunie

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# Agenda

Can European gas demand still be met with lower production from Groningen?

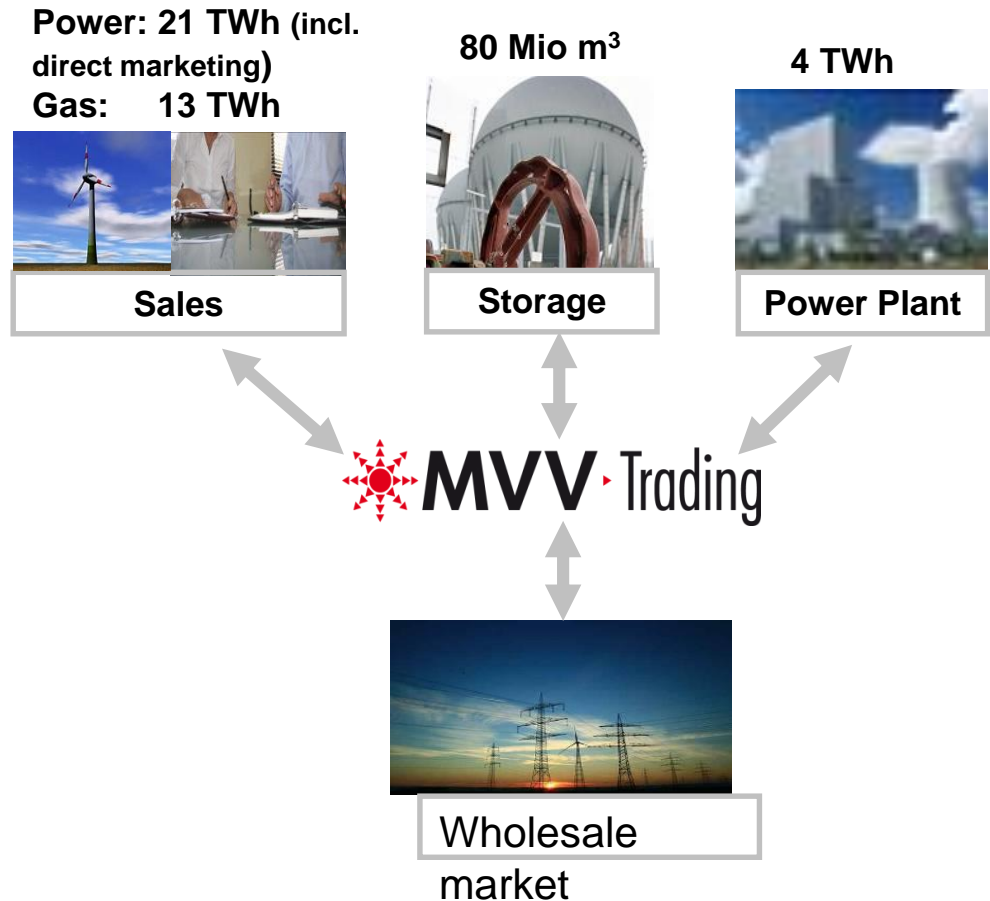
The future role of Groningen as a flexible supply source in the mid-to-long term

Is it more an issue of gas quality? – a look into the German NCG market area

# MVV Energie Group's Energy Portfolio

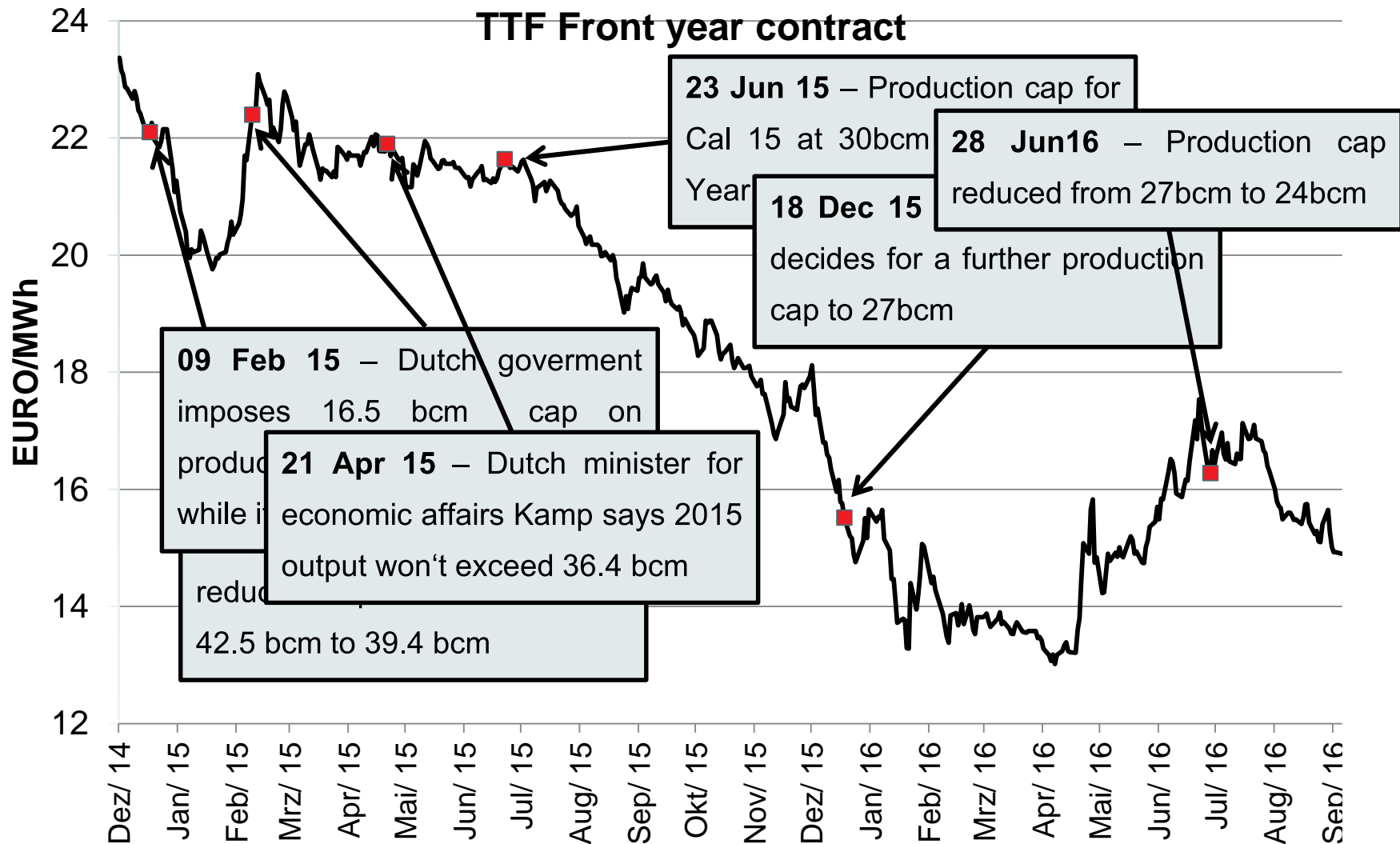
## Products for procurement, optimization and risk management

- Standard products
- Gas flexibility (e.g. storage...)
- CDS-hedging
- Renewables direct marketing > 4.000 MW

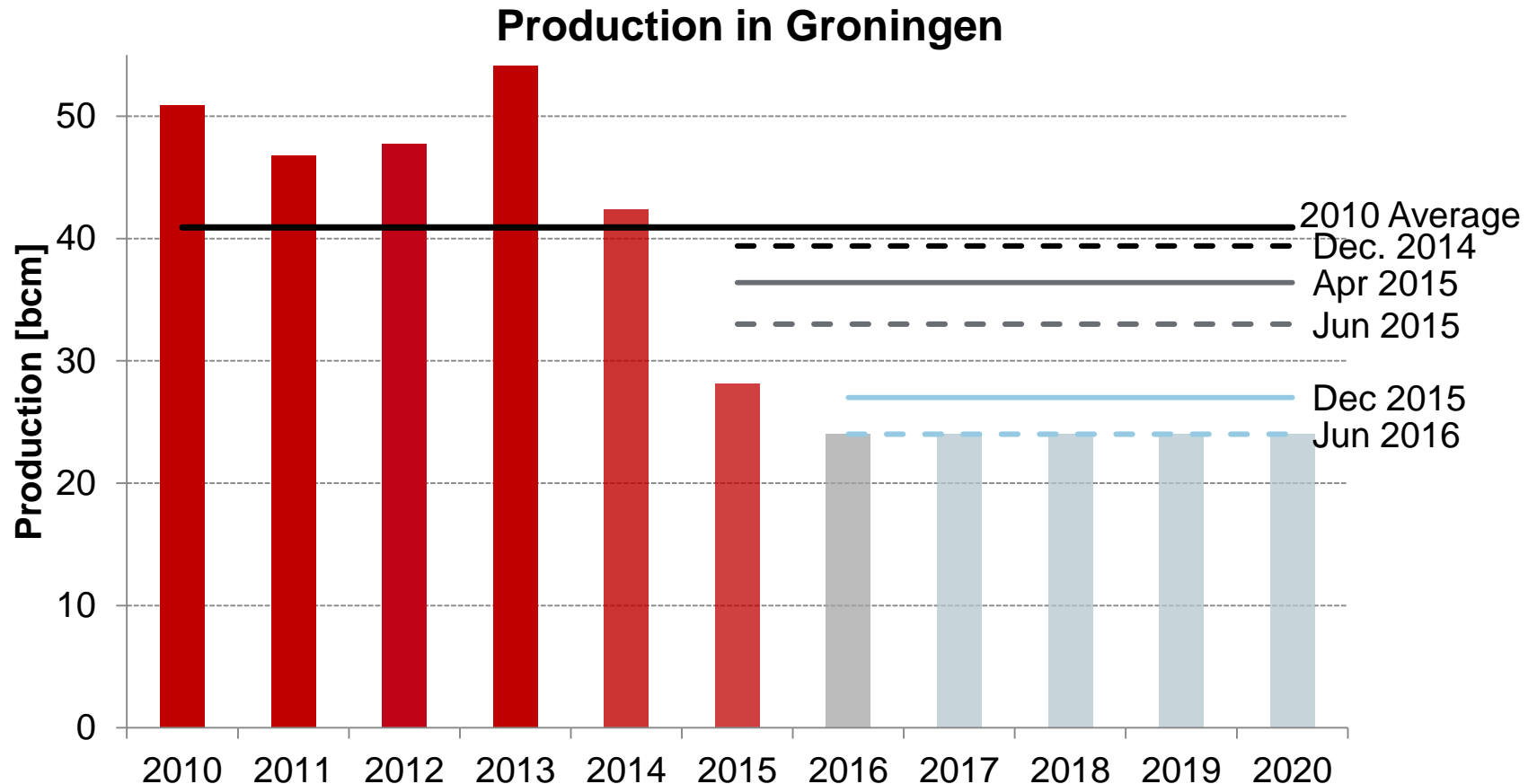


MVV Trading provides market access for the energy portfolio of MVV Energie group

# Major News regarding Groningen Production Allowances and the Effect on Prices

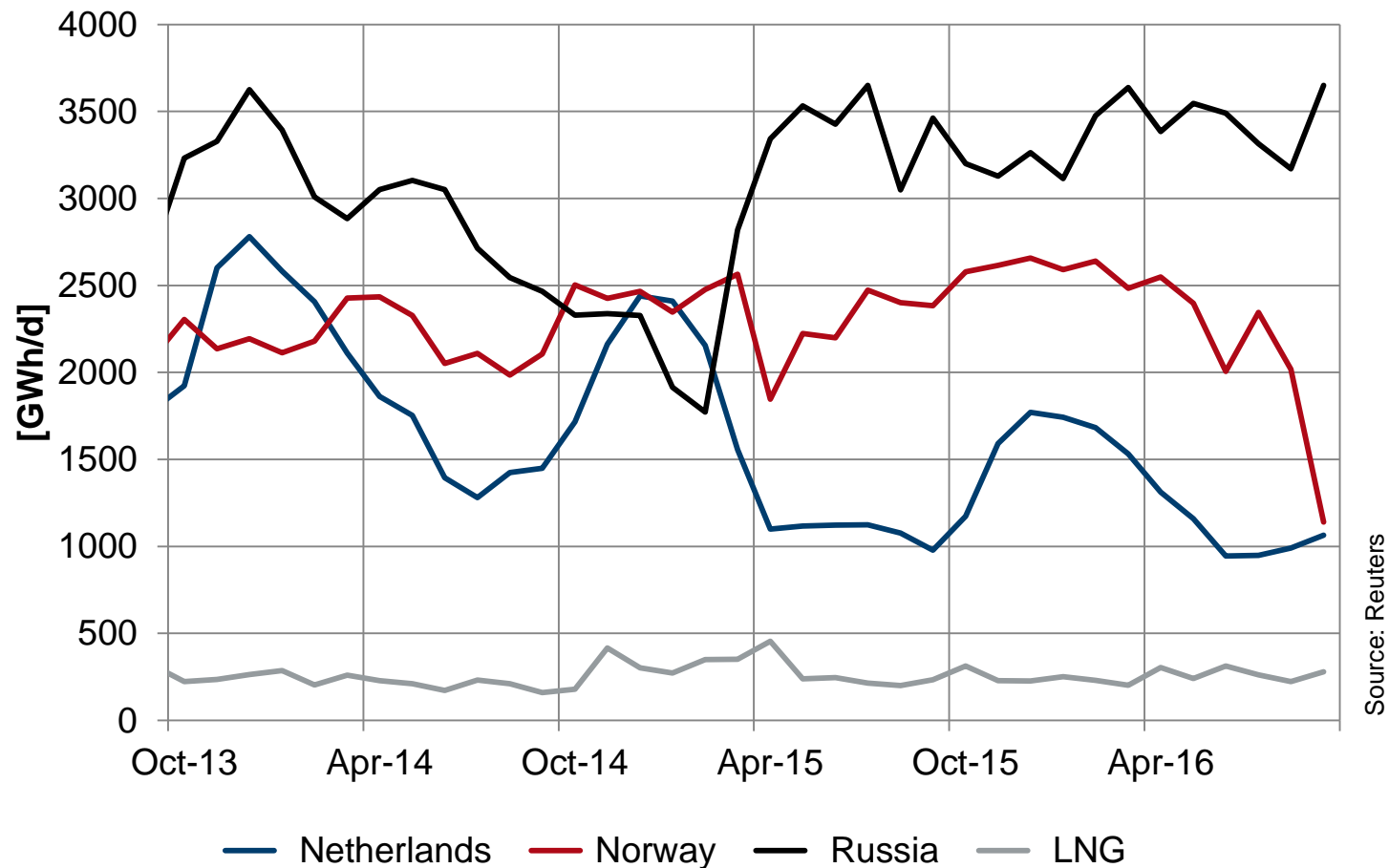


# Development of Groningen Production and Caps



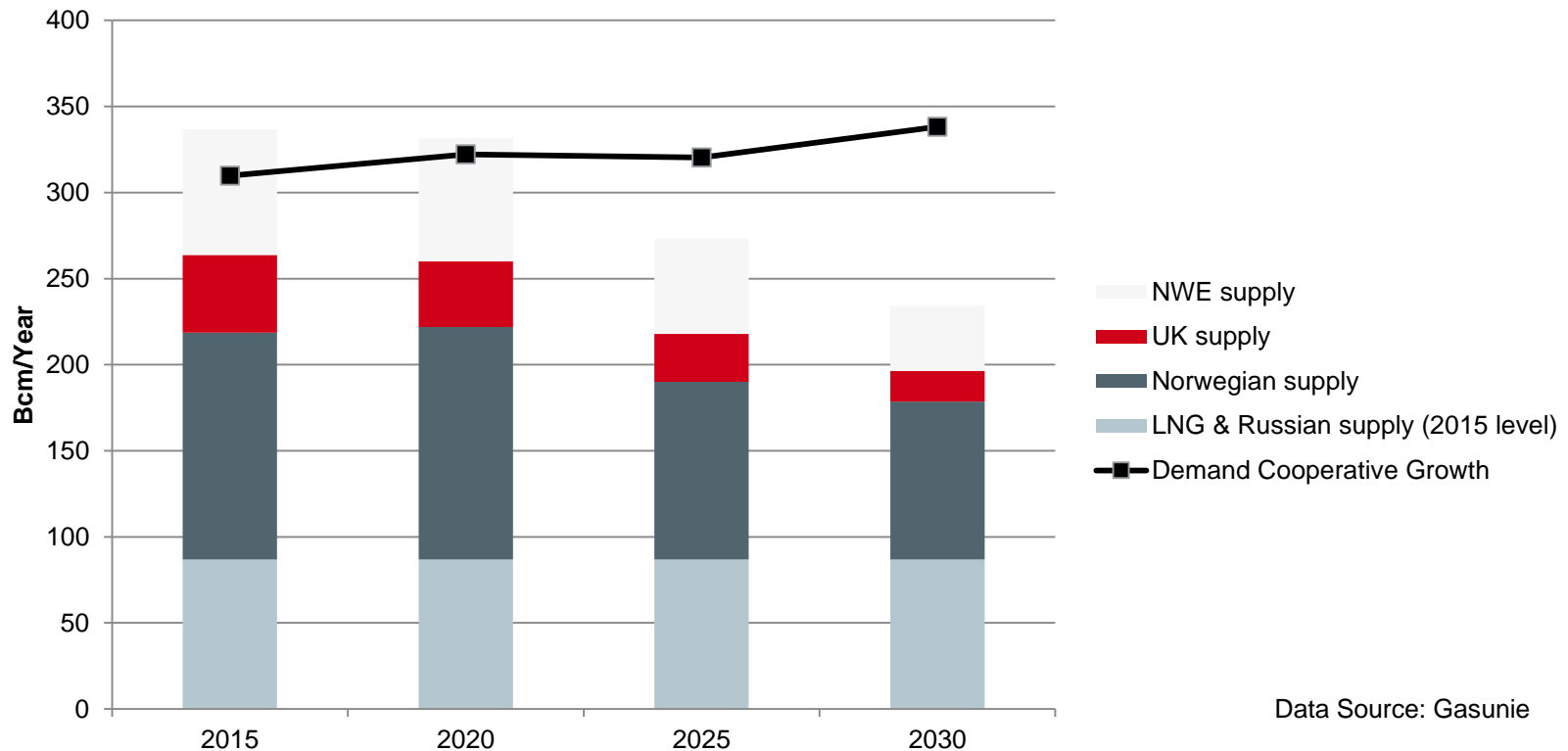
Any new decision increases reduction of Groningen production

# Development of Production and Flows for North-West Europe



Groningen Gas replaced mainly by increased flows from Russia

# Volume balance in North-West Europe - Supply Gap to be filled after 2020



## Potential Sources of Supply:

- ▶ Russia: ~70bcm unused import capacity, ~ 100bcm unused production capacity
- ▶ LNG >25bcm unused regasification capacity in the Netherlands, Belgium and Dunkerque

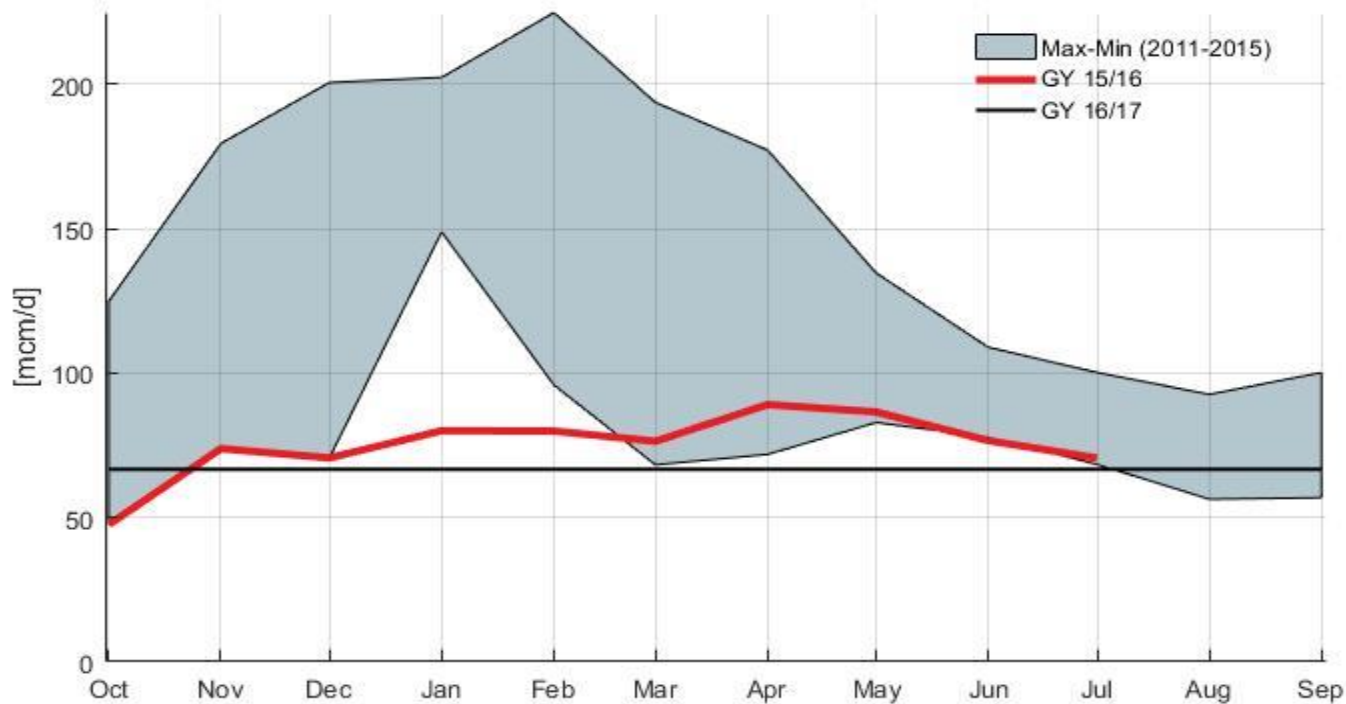
# Agenda

The future role of Groningen as a flexible supply source in the mid-to-long term

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Is it more an issue of gas quality? – a look into the German NCG market area

# Groningen Swing Capabilities – Past and Future



Source: Reuters & NAM

Alternative sources of flexibility:

- ▶ Storage (+ 7 bcm in NL alone)
- ▶ LNG (unused winter cap > 10 bcm)
- ▶ Pipeline imports
- ▶ Additional Groningen allowance in case of cold winter (6 bcm)

# Market View of Lost Swing Production



Summer x Winter spread not affected

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# Gas Quality – Low Calorific Gas

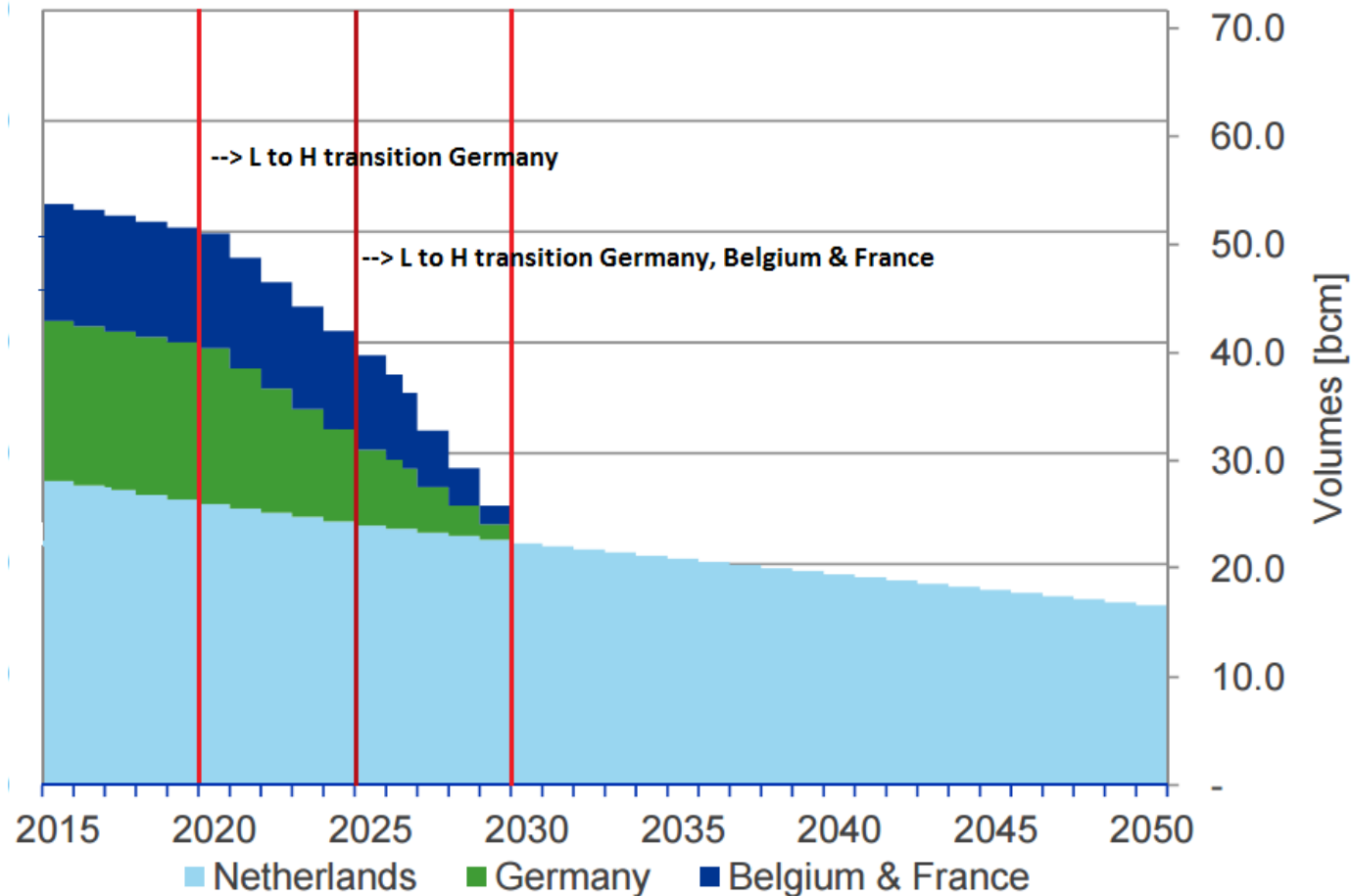
Low calorific gas (L-gas or G-gas)

- ▶ Wobbe index of 42.7 – 46.9 MJ/m<sup>3</sup>
- ▶ Produced mainly in Groningen and in some small fields in NL, Germany

How to cope with shrinking L-gas volumes

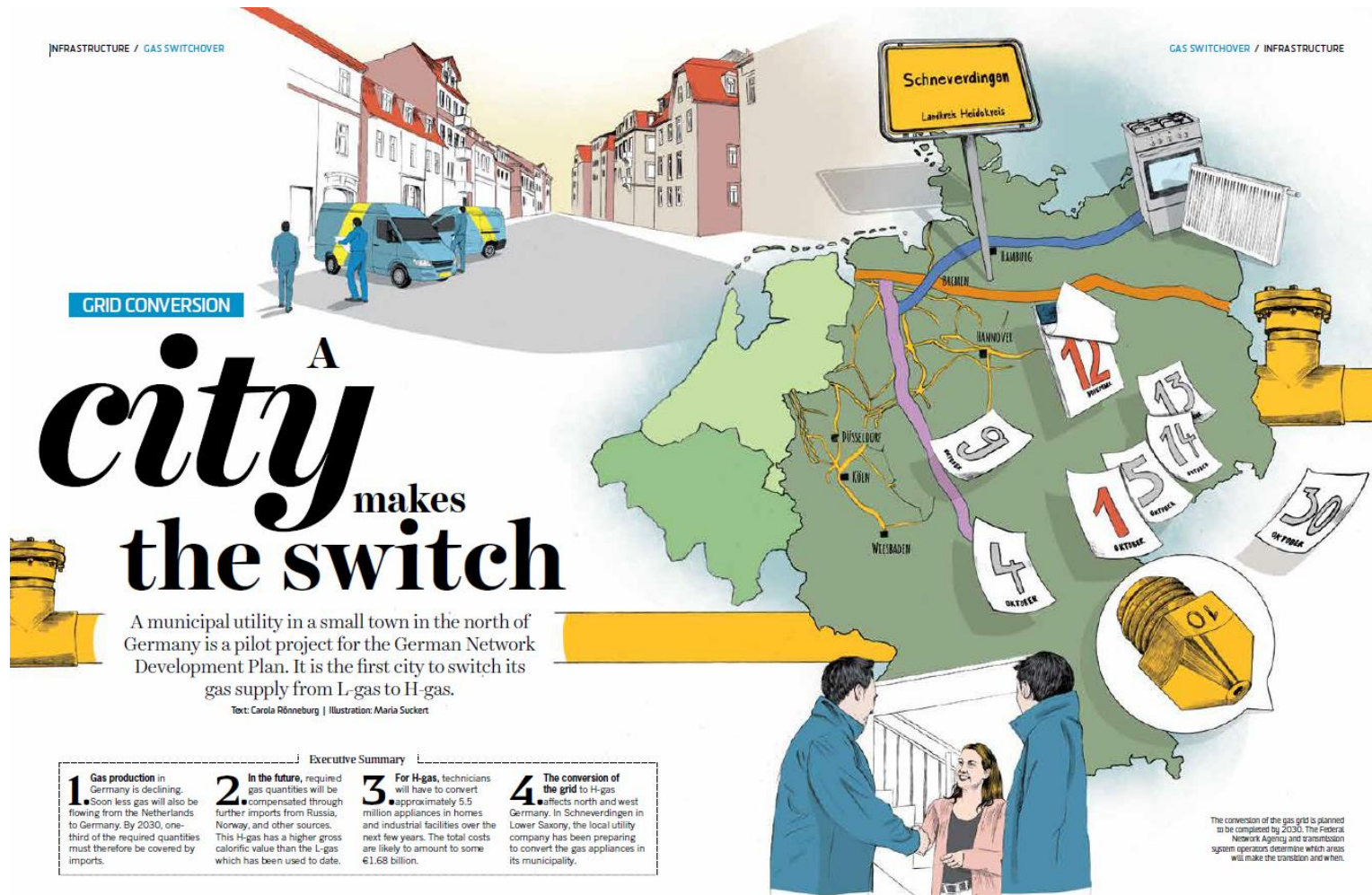
- ▶ Conversion:
  - Ballasting H-gas with Nitrogen – 20 bcm/a
  - Blending L-gas with H-gas to reach upper limit of Wobbe range Avoiding not required use of L-gas
  - Stop blending H-gas with L-gas
  - Stop exporting L-gas that is not needed (France) – 2 bcm/a
- ▶ Switching consumption from L-gas to H-gas

# Estimated demand for Dutch L-gas in an average year

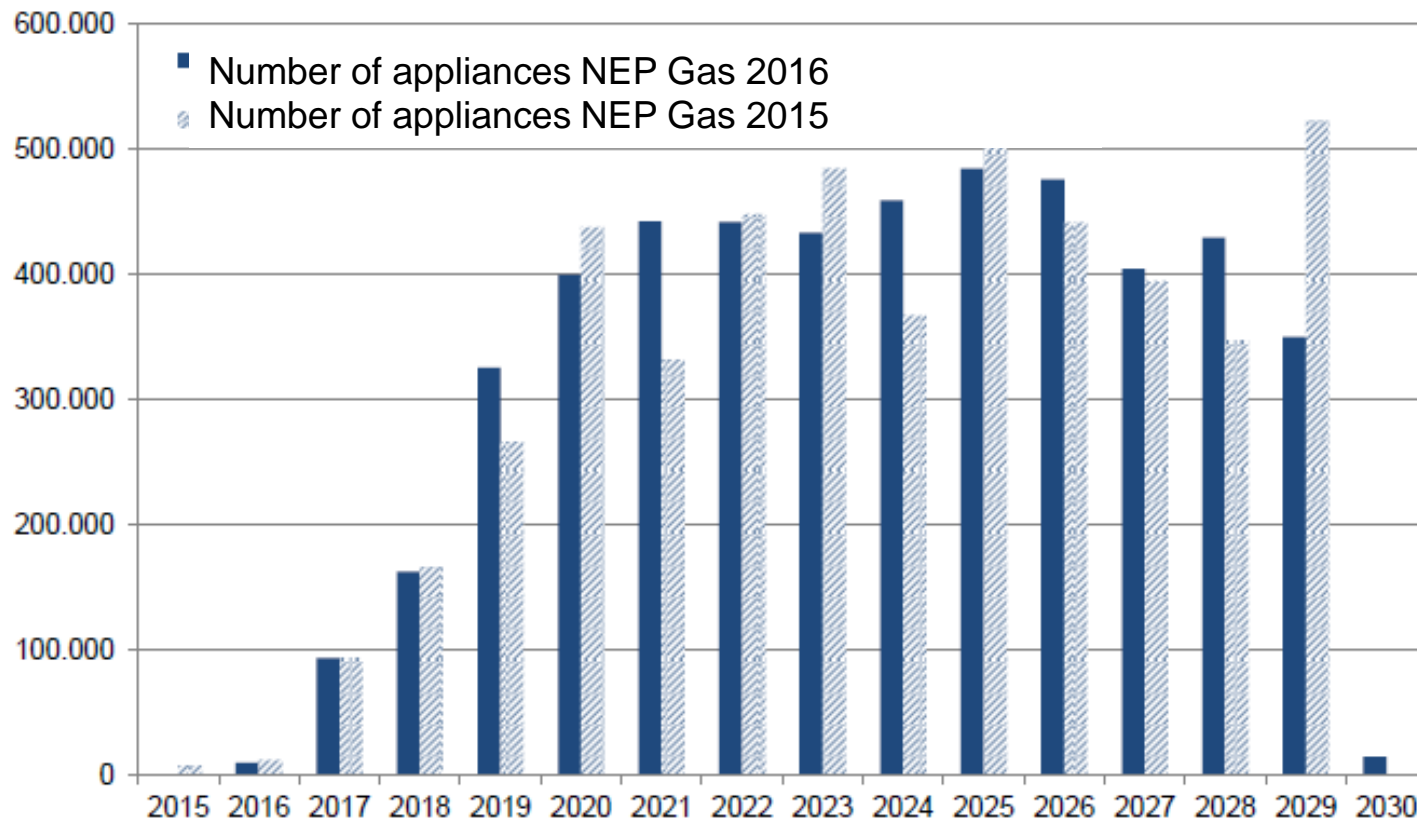


Changing quality specifications in consumption starting in Germany, followed by Belgium and France

# Switching Consumption from L-Gas to H-Gas has already started in Germany in 2015



# Plan for Regional Switching of Gas Quality



- ▶ Slow startup to build capacities
- ▶ Complex planning to define switching areas based on infrastructure constraints

# KONNI – Regulatory Framework for Quality Specific Balancing Issues in Germany

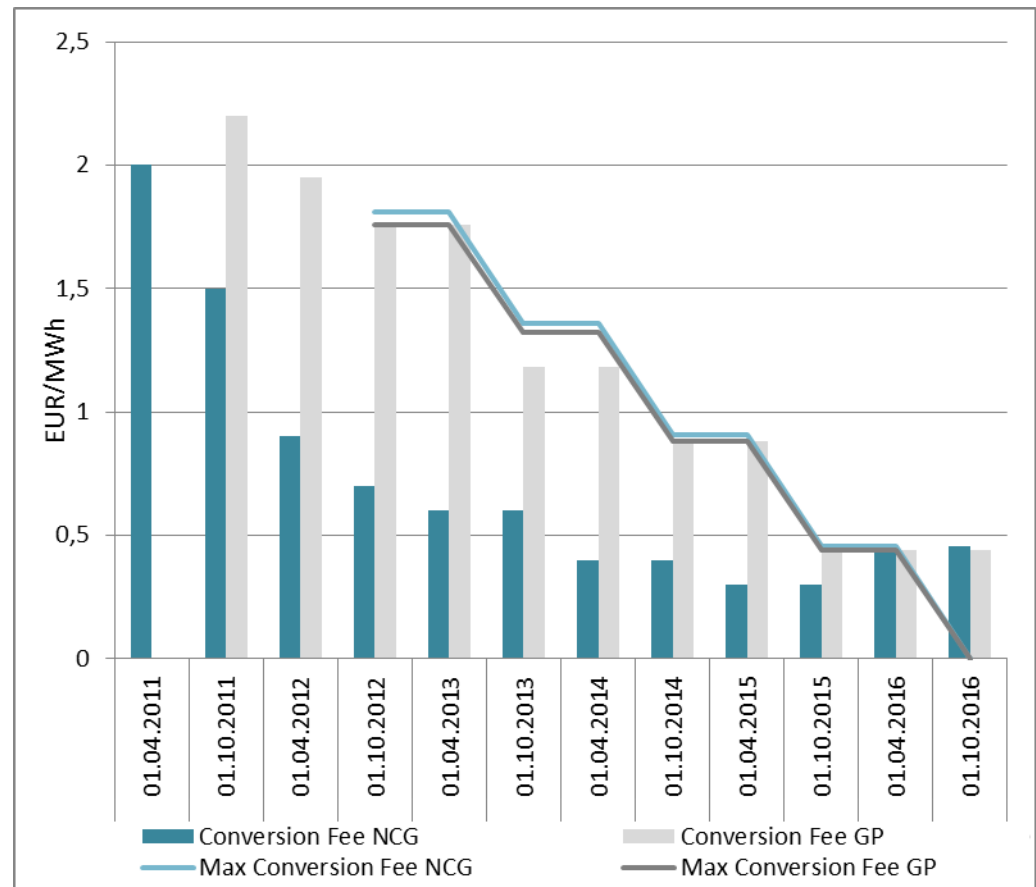
## 3 ways to fulfill demand for L-gas in NCG market area

Buy L-gas at NCG

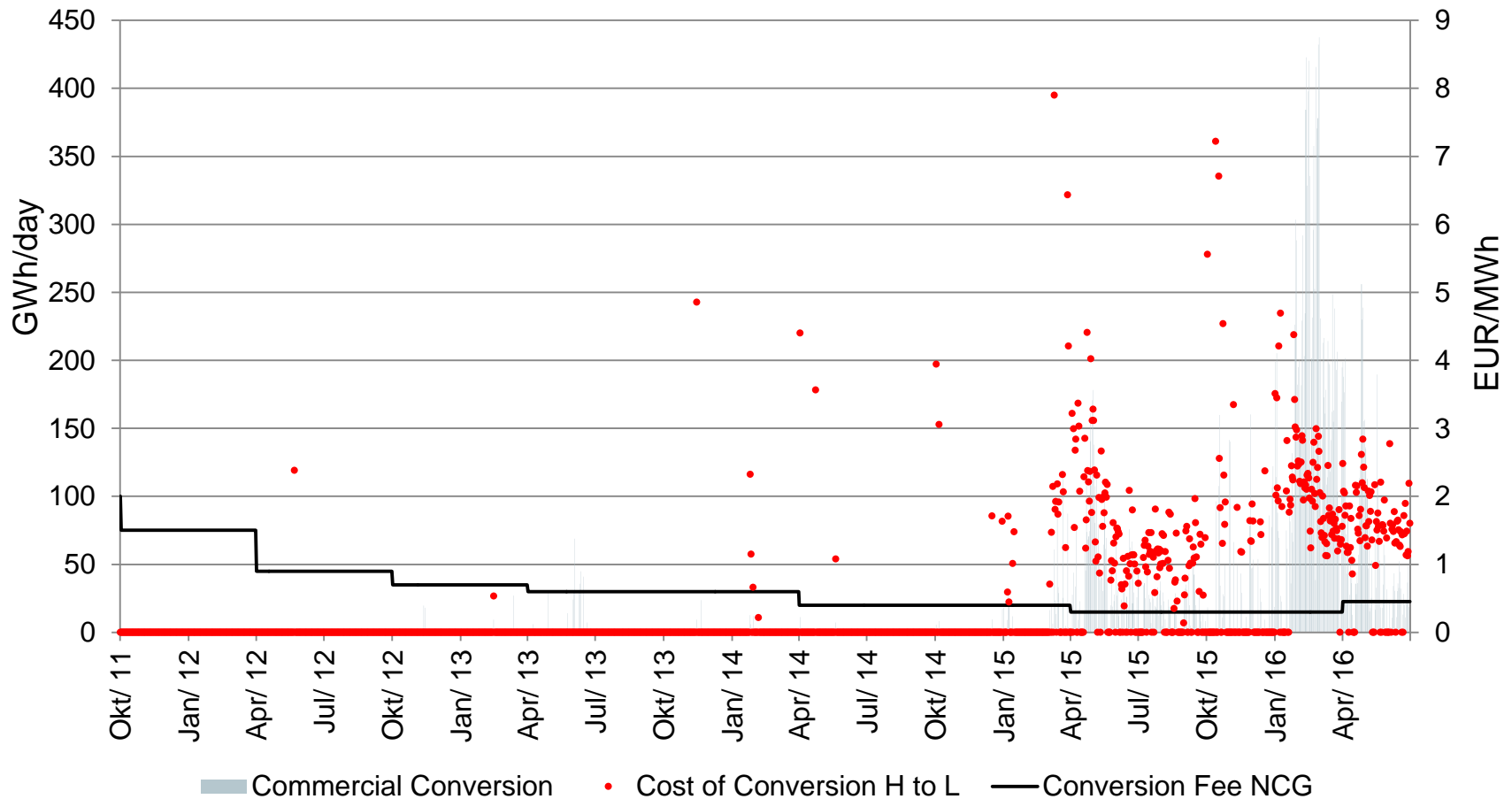
Buy L-gas at TTF or border point  
+ transport to NCG

Buy H-gas at NCG + virtual  
conversion to L-Gas (KONNI)

## Development of Conversion Fes in Germany

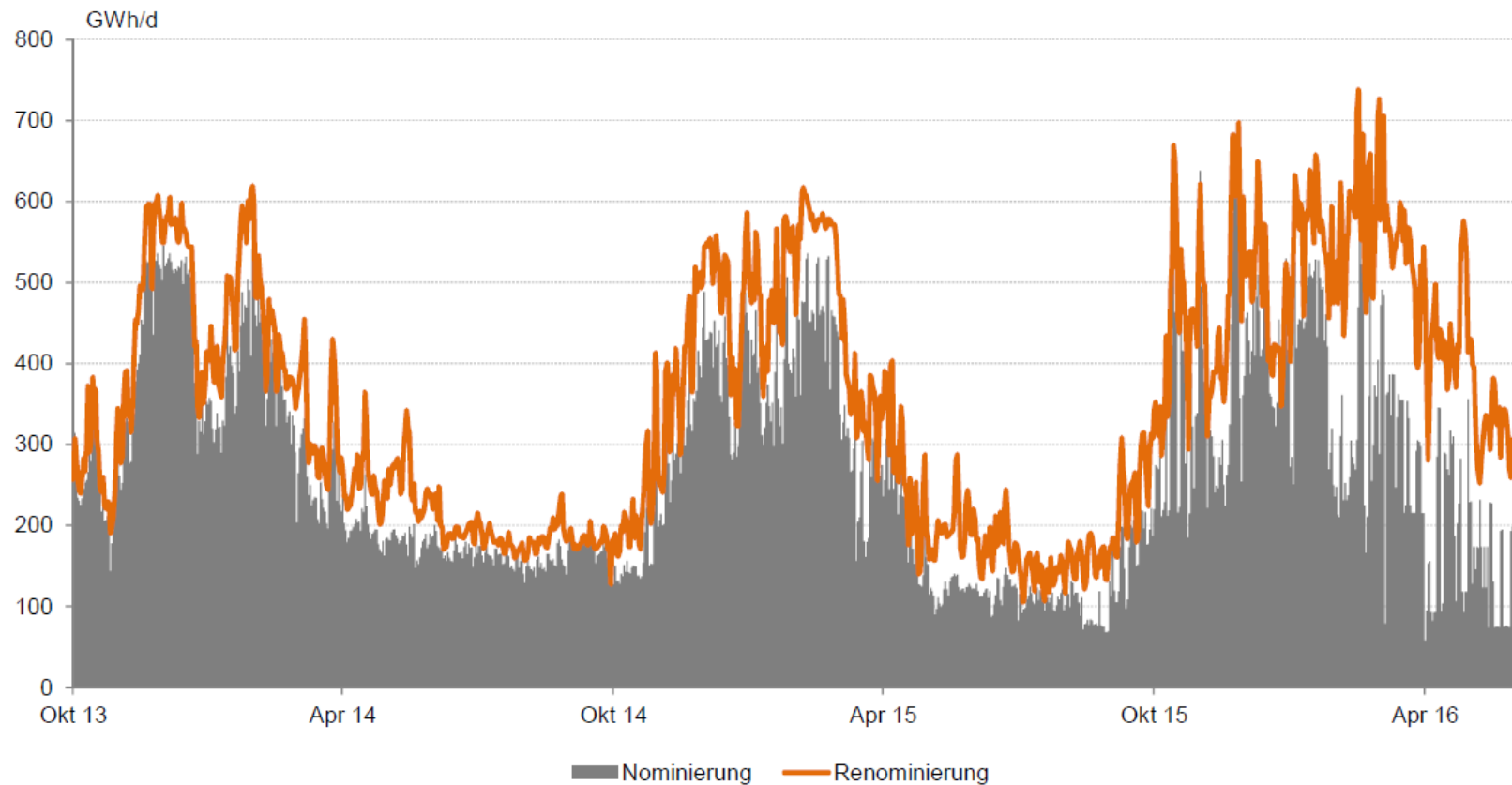


# Cost of Virtual Conversion and Converted Volumes



Is the conversion fee a sufficient incentive for shipper?

# Nominations and Renominations at Entry Points to NCG-L



Are shippers holding back L-gas to maximise profit?

# 3 Levels of Action for German L-Gas

- 1) Making sure that sufficient L-gas volumes will be available
  - Political Level
  - TSO-level
  - Trading level
- 2) Incentives for shippers to balance gas qualities
  - Prologation of KONNI?
  - Contradictory to legal limitation to 2 market areas
- 3) Integrating L-gas zones into TTF
  - Sufficient liquidity for German L-gas customers
  - Market design that can support shrinking L-Gas zones in German market areas



Thank you for your attention!

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