



Future of gas in the SEE region

Switching from coal in the Balkans: how
current infrastructure developments affect the
gas consumption



Peter Kotek, REKK

OUTLINE

1. Global gas market developments and outlook
2. Infrastructure and regulatory developments in SEE
3. Modelling power sector gas consumption

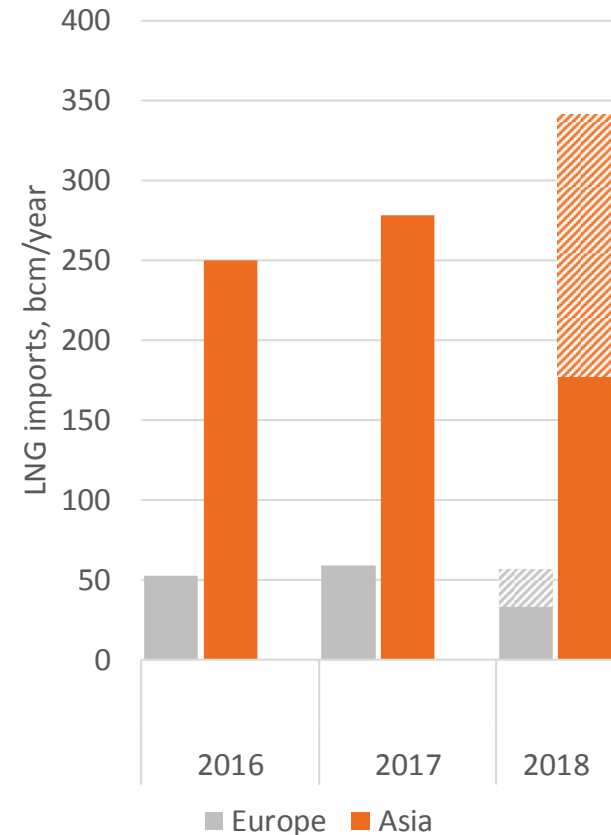
2016-2018: YEARS OF NATURAL GAS OVERSUPPLY TO EUROPE

Gas price drop due to

- Legacy LTC oversupply
- Falling European consumption
- Brent crude price
- Low Asian demand

What does the future bring?

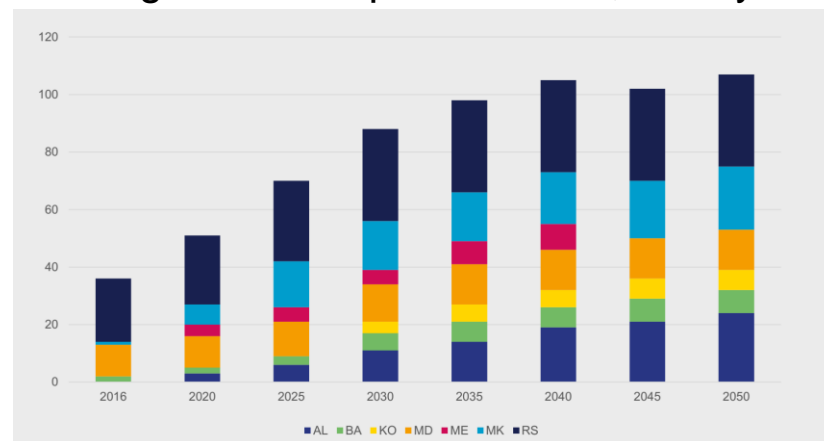
- Brent price increase
- High demand increase in Asian markets
- Tightening of LNG shipping capacity
- Stronger correlation of European and Asian prices



FUEL SWITCHING ALREADY OCCURED IN NWE

- Lower gas prices and oversupplied market were not enough on their own to turn gas-fired generation competitive with coal in NWE
- CO₂ quota price recovery in early 2018 made the switch possible
- Gas demand recovering, but not at the 2008 level
- Consumption growth may come only from power sector
- Fuel switching to come in SEE?
- Increasing gas demand expectations in the West Balkans (EnC CPs)

Gross gas consumption in WB6, TWh/year



[Predrag Grujičić \(EnC\): Clean energy package - reality check for the Energy Community. ,13th Gas Forum, 20 Sept 2018 Ljubljana](#)

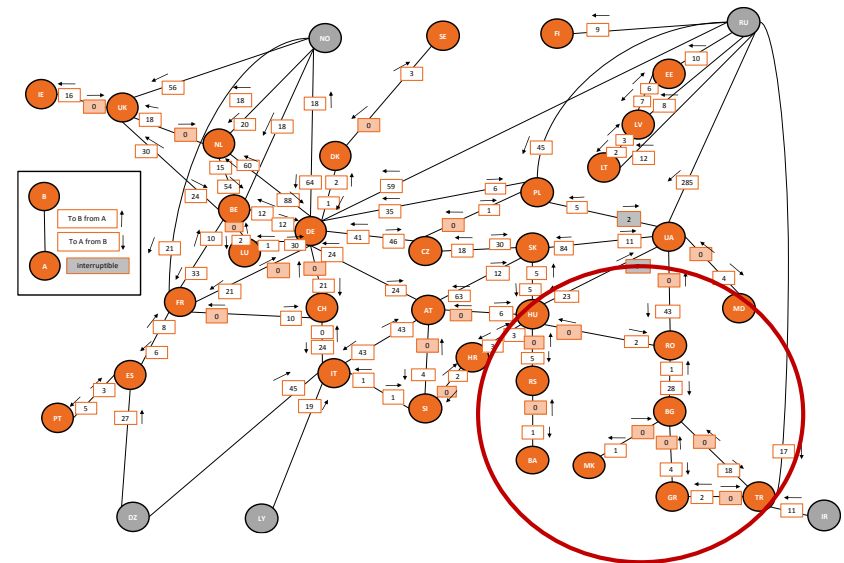
POTENTIAL NEW SOURCES

- Backbone projects
 - Black Sea offshore
 - TAP and TANAP +IGB
- WB6 connection to TAP via IAP?
- TurkStream and Southern Corridor
- LNG terminal in Northern Greece (PCI)
- What is happening in gas infrastructure in Europe is happening in this region



INTERCONNECTIVITY AND REGULATORY OBSTACLES

- Compared to NWE: fragmented, loosely interconnected SEE gas markets
 - Lack of bidirectionality
 - Prohibitive Exit tariffs
 - TPA access issues on Trans-Balkan
 - Limited option for trade
- The future is bright for gas projects
 - PCIs targeting the region (Greek terminal, IGB, TAP, IBS, rehabilitation of Bulgarian network)
 - Transgaz tariff commitments
 - Bookings to expire on the Trans-Balkan by mid-2020



[Source: EY & REKK Quo Vadis EU gas regulatory framework](#)

FUTURE OF GAS FIRED GENERATION

South East Europe Electricity Roadmap

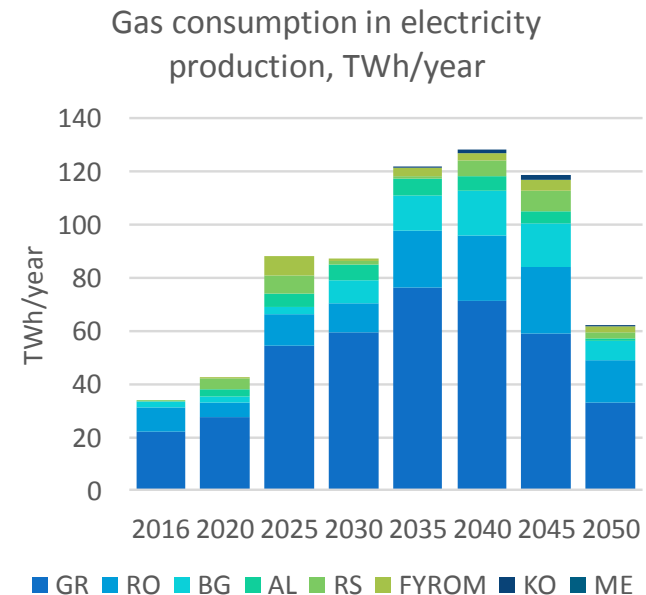
SEERMAP region: BG, GR, RO, WB6 (AL, RS, BA, KO*, ME, FYROM)

EEMM-EGMM model interaction

EGMM gas market model providing prices assuming FID projects

EEMM electricity market model deciding on endogeneous investment in the SEERMAP region

Substantial gas-fired investment in Greece, Romania and Bulgaria



CONCLUSIONS

Gas switching in the power sector occurred in NWE, bringing higher volumes to Europe

SEE has a high potential, switching from existing coal-fired generation to gas
WB6 countries keen on introducing gas to their primary energy mix (local emissions)

New pipeline projects bring new sources

Option for gas to replace coal-fired power generation and possible gasification of new markets

*Navigating the Roadmap for Clean, Secure
and Efficient Energy Innovation*



Thank you!

Project Coordinator

Dr. Gustav Resch

*Vienna University of Technology
Institute of Energy Systems and Electric Drives
TU Wien, EEG - Energy Economics Group*

Website: www.eeg.tuwien.ac.at

E-mail: resch@eeg.tuwien.ac.at

Tel: +43-1-58801-370354

Visit our Website

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LNG OVERSUPPLY TO TIGHTEN ONLY AFTER MID-2020s

