

# Nord Stream 2

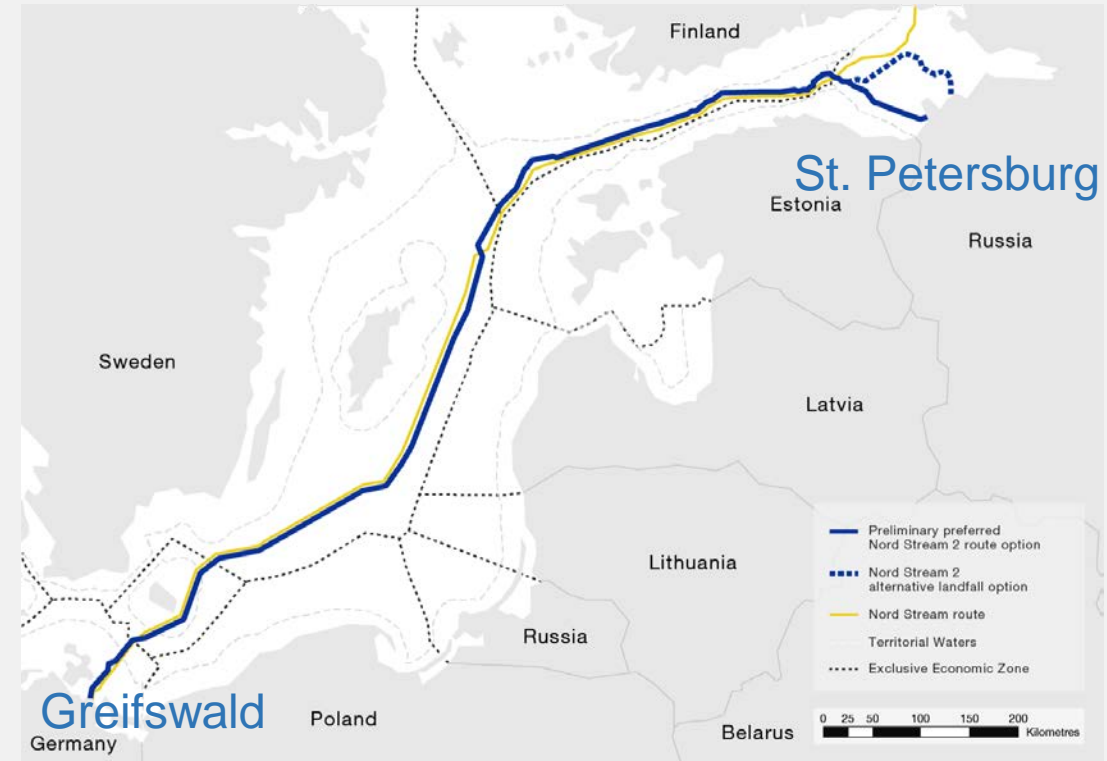
## and its impact on Europe

Walter Boltz

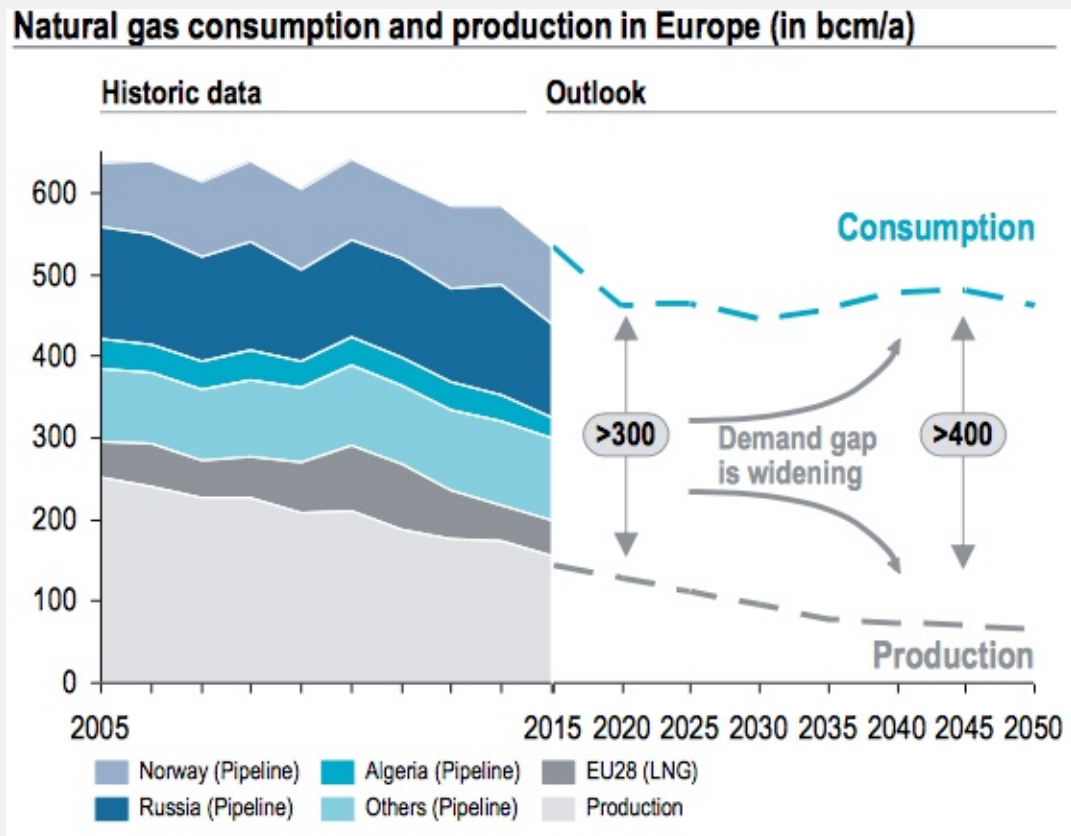
Senior Adviser European Energy,  
Member ACER Board of Appeal,  
Former Chair ACER Gas Working Group

# The Nord Stream 2 facts

- Approx. 1,200 km length
- 2 parallel lines
- 55 bcm/a total capacity
- CAPEX about EUR 8 billion
- 30 % shareholder funding
- Project launched in 2011
- Planned construction in 2018-19
- Planned commissioning date Q4/2019
- First pipes arrived in German logistic hub end of October
- Coating has started



# Massive capacity increase in Greifswald area



<b>Total EU pipe import capacity in 2016</b>	<b>450 bcm/a</b>
From Russia (total)	245 bcm/a
From Ukraine	120 bcm/a
<b>Total EU gas import in 2015</b>	<b>400 bcm</b>
From Russia (total)	40%
From Ukraine	39%
From NS 1	30%

# Is this all about business?

- EU is Gazprom Exports (GE) largest gas customer (~ 70%).
  - 146.6 bcm sold to EU (33% of overall output) in 2014, even more in 2015.
- Loss of industrial customers in home market.
- Declining domestic consumption & exports to Ukraine.
- Federal Antimonopoly Service plans to liberalize domestic prices from 2018.
  - Unbundling under discussion.
  - Export monopoly under pressure.
- DG COMP has objections against GE business model.
  - Oil-indexed LTC model is fading out.
  - Market share maximization vs. price maximization system.



# Is this all about business?

- Global LNG capacity increase will put pressure on gas prices.
- GE reportedly lost \$1.5 billion during January 2009.
- Liquid NW EU gas markets coincide with lower prices.
- Southern Corridor – would be a better choice for business - But
  - LTC delivery points need to be moved.
  - Additional infrastructure investment in EU needed (as well as for NS2).
  - Political risks do exist for gas transport to EU border – for many countries.



However,.....

GE will end transit through Ukraine upon the expiry of existing supply contracts in 2019, 'even if hell freezes'. - GE CEO Medvedev

# Regulatory treatment of pipelines

## Nord Stream 1

- Permitting process prior Third Energy Package.

## Trans Adriatic Pipeline (TAP)

- 25 years, 10 bcm, TPA & tariffs; unbundling.

## NABUCCO

- 25 years, 7.5 bcm, TPA & tariffs; unbundling.

## Ostsee-Pipeline-Anbindungsleitung (OPAL)

- 22 years, 17.5 bcm entry capacity, TPA & tariffs.
- Recent changes to exemption.



# Is a different regulatory treatment possible?

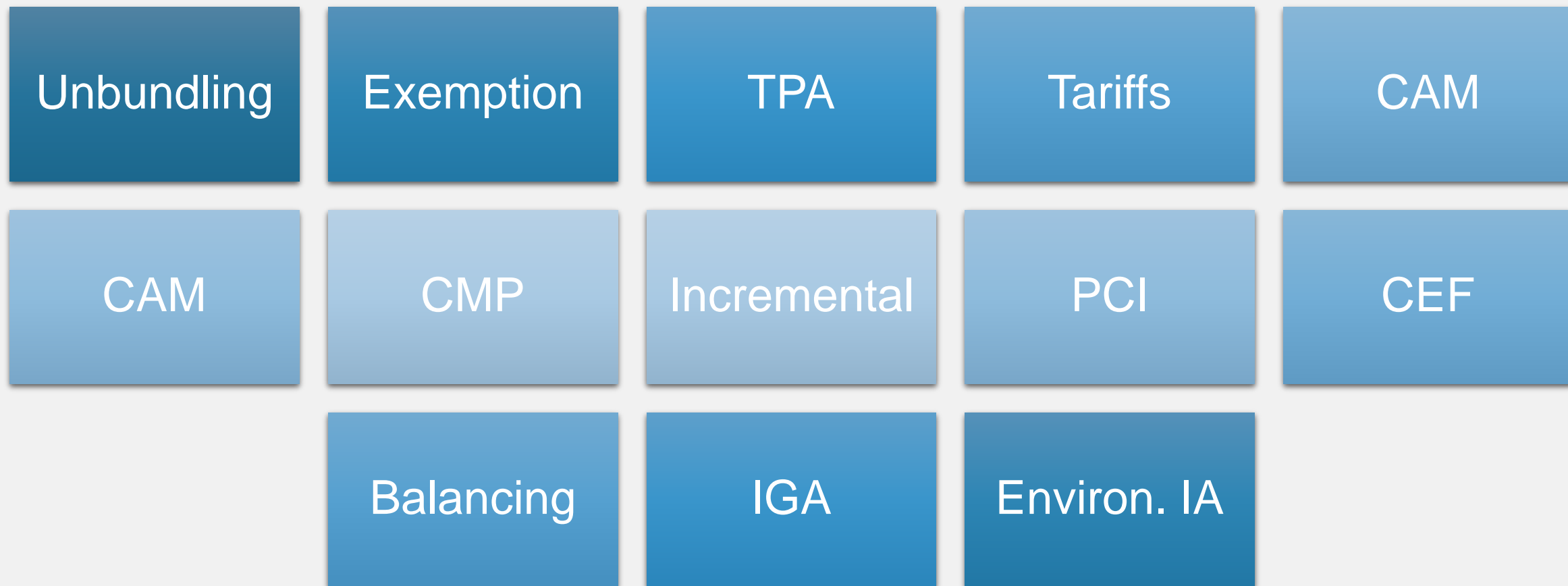
- Legal and regulatory framework for any new pipeline is enshrined in the Third Energy Package.
- 3<sup>rd</sup> Package entered into force 2009.
- Not all EU member states have it completely transposed yet.
- Heterogeneity in national regulatory models exists.
- NS2 faces a much tougher regulatory environment than NS1 did.
  - Territorial waters of 2 and exclusive economic zones of 8 member states concerned.
  - ECJ ruling can be seen as pointing to application of 3<sup>rd</sup> Package. Or not.
- NS2 could also go ahead with a full application of 3<sup>rd</sup> Package rules.

# The European Commission says....

- “[...] eastern European countries will clearly have their energy security decreased’ because of Nord Stream 2.” - Commissioner Šefčovic
- “All natural gas flows entering the EU need to be fully compliant with energy market regulation”. - Director Borchardt, DG ENER
- EU energy regulation applies to both the on- and offshore (if in territorial jurisdiction of EU member states) parts of NS2.
- Unbundling is an issue (Article 11 Gas Directive).
- Treatment of South Stream is precedent for new pipelines entering the EU and possible downstream extensions.



# Long list of (as yet open) legal issues



... However, the list of political issues might be even longer.

“Mr Miller [...] will continue to pursue NS2 project.  
This is in our interests; [...]

What’s most important as far as legal issues are concerned is that  
we strive to ensure that all this remains  
under the competence of the German authorities, if possible. [...]

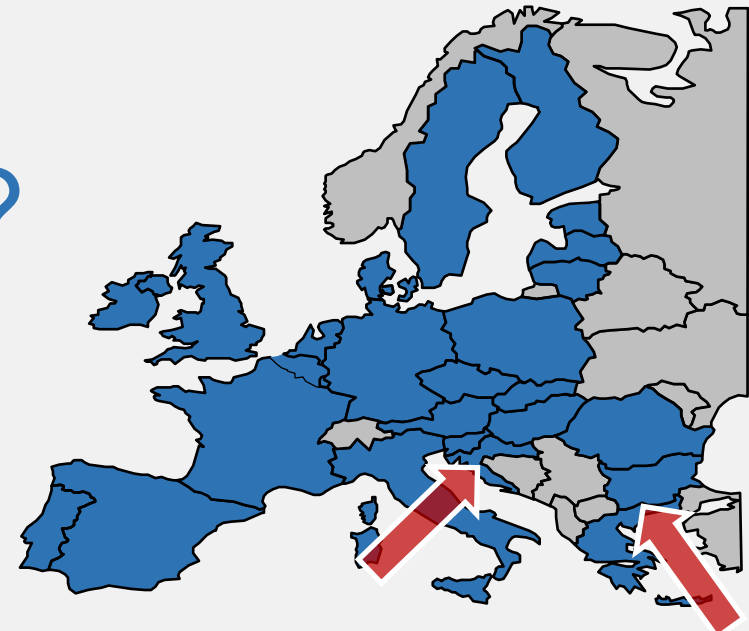
And in order to limit political meddling in these issues [...]  
we need to settle the issue of  
Ukraine’s role as a transit nation after 2019. [...]”



- Vice-Chancellor Gabriel

# Southern Corridor – an alternative?

- EU priority to secure alternative, non-Russian, gas & supply routes, without/with less geopolitical issues.
- Support for infrastructure investment via PCI & CEF.
- CESEC to accelerate integration of gas markets and diversify supplies.
- Southern Gas Corridor Advisory Council & other diplomacy initiatives reaching out for Caspian gas.
- Remaining questions:
  - Will Caspian upstream capacity increase significantly?
  - If so, how much Caspian gas will flow to Europe?
  - Are there less geopolitical issues along the route?
  - Will a common/co-ordinated regulatory framework exist within reasonable time?



# Europe has to do some homework

- NS2 might enhance liquidity of NW hubs & partially also CEGH.
- 2014 stress test showed potential issues in SEE & partially in CEE if no gas enters from EU eastern borders.
- NS2 will partially re-route already contracted supplies.
- NS2 itself does not fundamentally alter European import dependency on Russian gas.
- NS2 will provide for additional import and (indirectly) interconnection capacity.
- Legal, regulatory & political questions need to be answered.
- Election cycles in EU member states might alter political positions.

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