

### 25th world gas conference

"Gas: Sustaining Future Global Growth"

### Interaction between Neighbouring Networks

Committee Session 3.1

By: Ansgar Brauer, E.ON Ruhrgas AG

Date: June 5, 2012

Venue: Kuala Lumpur



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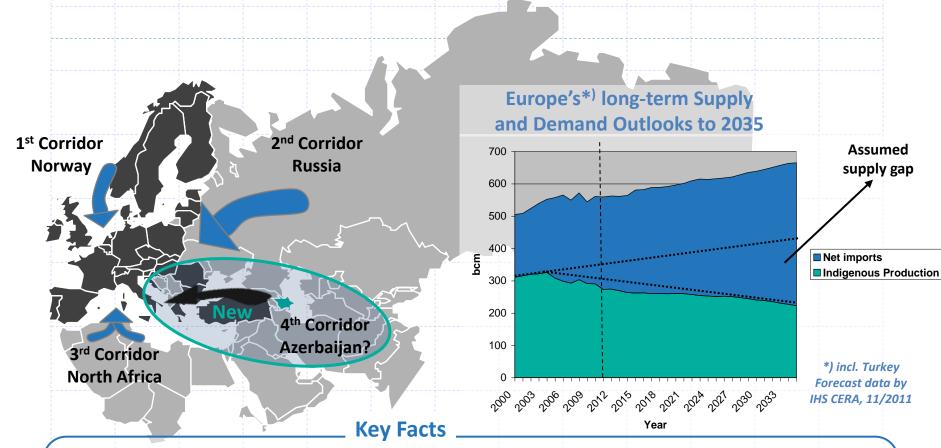




### Why Europe needs new gas import routes?



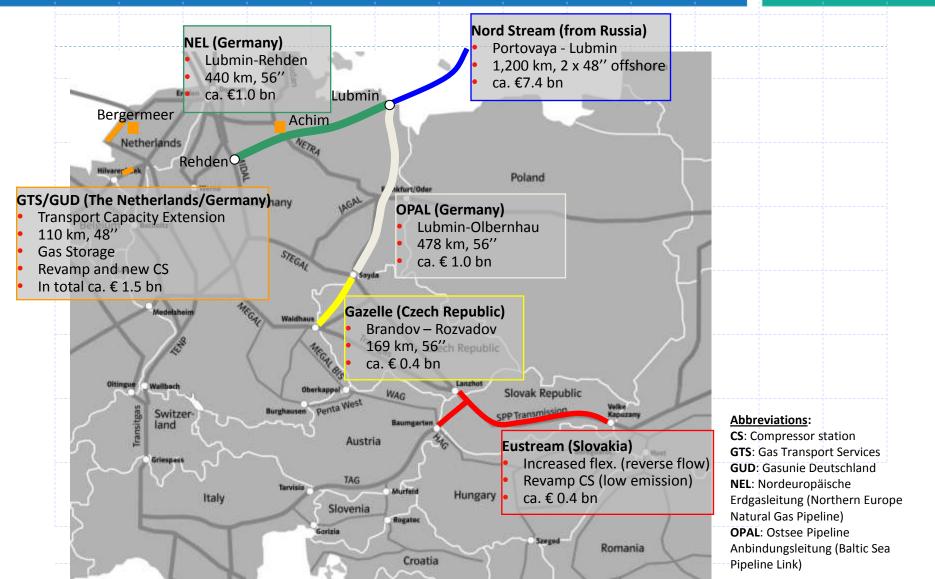




- Indigenous production in Europe is declining
- In parallel gas consumption will slightly rise or stay at least close to current level
- Natural gas will play a key role → Commitment of Europe to greenhouse gas reduction
- Shale gas potential in Europe seems to be limited → Extended gas imports required
- European Union focus: Diversification of supply routes, security of supply, competition, market integration

## SG 3.1 Case Study: Nord Stream Pipeline triggers huge investments in Europe





## Impressions: New-build pipelines and extension of existing systems

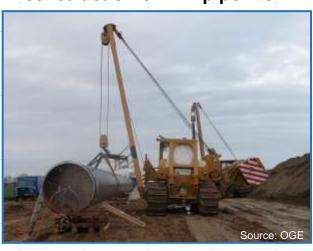


#### **Bergermeer Gas Storage**





#### **Construction of NEL pipeline**

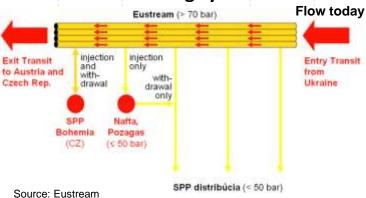


Construction of "Gazelle"





### Eustream: Optimisation of existing system



## Increasing need for public acceptance – Example: NEL construction stop



### Construction stop on NEL site since June 2011

**Situation:** Despite the fact that the pipeline has been planned in accordance with German codes TRFL / DVGW-G 462 and has passed successfully the EIA process the higher administrative court (OVG Lueneburg) claimed **not sufficient safety distances**.

### **Consequences:**

40 km rerouting (southern route)

CAPEX: ca. + € 80m

 First gas date postponed by 1 year (now envisaged: October 2013)



Teachers and parents of a primary school in the village Stelle (11.000 inhabitants) protesting against the gas pipeline under their playground.

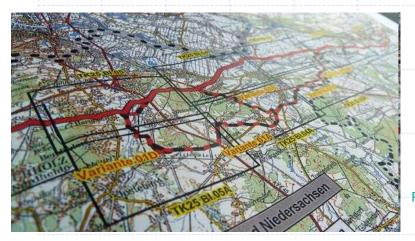


Table: Deterministic approach for safety distances in Germany

Pipe Diameter	Minimum width of protection strip
	acc. to DVGW-G 463
	(middle of the strip should indicate the pipe axis)
≤ 150	4 m
> 150 ≤ 400	6 m
> 400 ≤ 600	8 m
> 600	10 m

Proposal for **alternative routings** the village around Stelle

Pictures: www.ndr.de

### **Summary and Conclusions SG 3.1 report**



- Decline of gas production in Western Europe requires increase in gas flow from outside towards Europe → strengthening the Eastern and establishing the Southern gas corridor
- Shale gas potential in Europe seems to be limited (compared to the USA)
- Diversification of gas supply routes necessary to ensure security of supply, market integration and competition (goals of European Union politics)
- New gas infrastructure must be extended, optimised or newly developed to ensure future gas supply
- Investment climate defined by national regulators and European Commission play a key role >
  return on invest must be adequately to attract investors and to cover development risks
- More and more important:
  - Early involvement of all stakeholders and transparent information to achieve acceptance
    of the projects in public
  - Timing: Especially cross border pipelines have to focus on bankability ("equator principles") and Permitting / Authorisation → often here projects tend to be on the critical path rather than due to technical / engineering issues

## WOC 3, SG 3.1 "Strategic gas transmission infrastructure projects"



# Thanks your for your attention!

**Questions?**