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European Energy Security : Challenges and Policy Responses

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The EU's energy imports dependence

- Today (EC):
 - Share of imports in total EU energy consumption is of 50%
 - Coal import dependence: 42%
 - Oil import dependence: 90%
 - Gas import dependence: 70%
 - Reduction of domestic oil and hard coal production has not been compensated by the recent rise of renewable production
- By 2040 (IEA, NPS scenario):
 - Dependence on coal to reach 56%
 - Dependence on oil imports will continue to increase
 - Dependence on gas ro reach 81%
 - → This growing dependence is a concern because fossil fuels will still have the largest share in total consumption (61% in 2040)

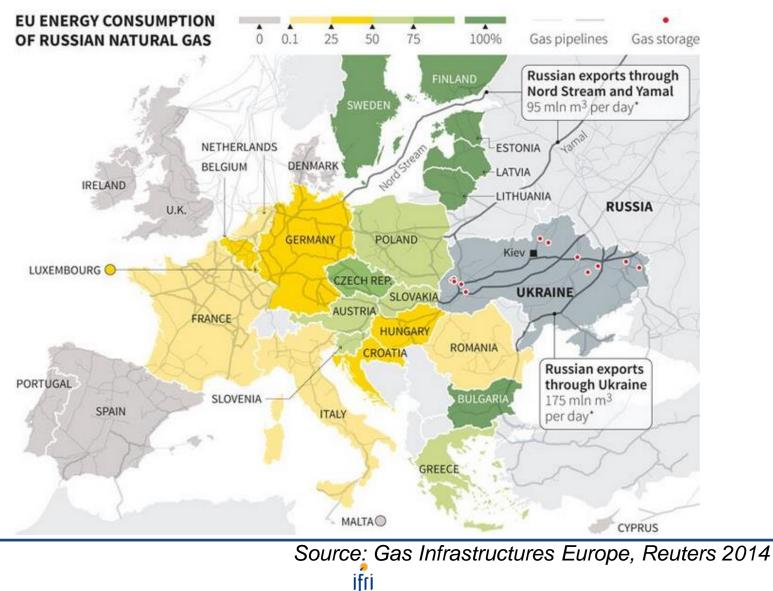
Security of gas supplies raises the most concerns today

- Switching between suppliers/routes is complex & costly
 - Historically, the European gas transmission network was built to accomodate for east to west and north to south flows
 - LNG is a stong asset but most terminals are located in Western Europe + competition with Asian/South American buyers
- Russia is the largest supplier of gas to the EU, although dependency levels vary from 0 to 100% bw States

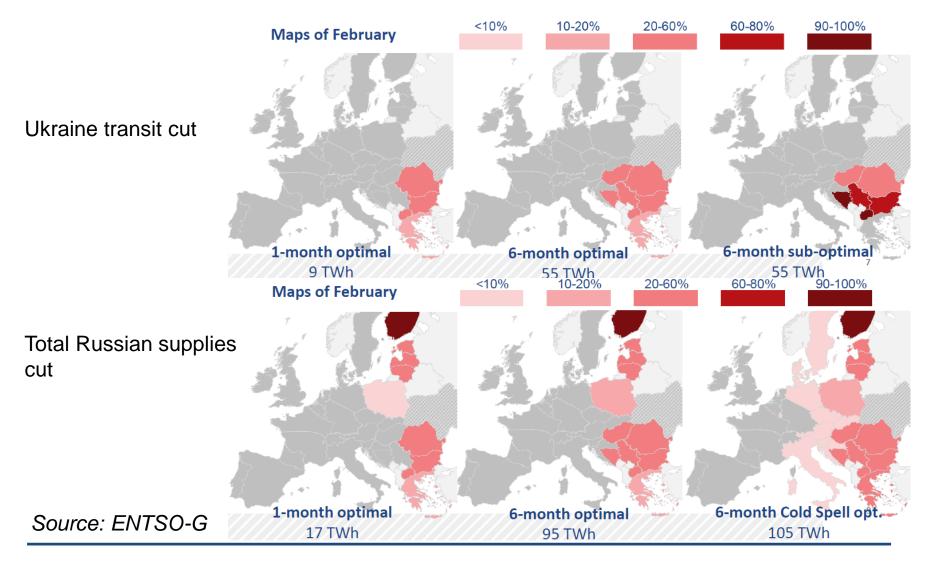
- 136 bcm in 2014, i.e. 33% of total EU imports (BP stats)

- Ukrainian transit route remains essential for the supply of the South/South-Eastern parts of Europe
 - 50% of Russian deliveries to EU transited through Ukr. in 2014
 - Belarus and North sea routes cannot fully compensate for Ukr.

Share of Russian supplies in total gas consumption per Member State



Stress-tests for fall-winter 2014-2015



No "easy solution" to replace Russian supplies

- Maximising existing supplies?
 - Depleting reserves in the North Sea fields (Norway, UK)
 - Decrease of Algerian exports to the EU over the past 7 years
 - No "shale revolution" expected (only in Poland and UK so far)
- Building the Southern gas corridor?
 - New pipeline Azerbaijan-Turkey-Italy to be commissioned in 2016 but low volumes (2% of the EU's 2012 gas consumption)
 - Potential additional volumes from Turkmenistan, Iran and Irak
 but geopolitical uncertainties and other buyers competing
- Betting on LNG?
 - Ample capacities (West) but low rate of use because of competition with higher-paying markets
 - LNG is now coming back thanks to falling oil prices; can it last?

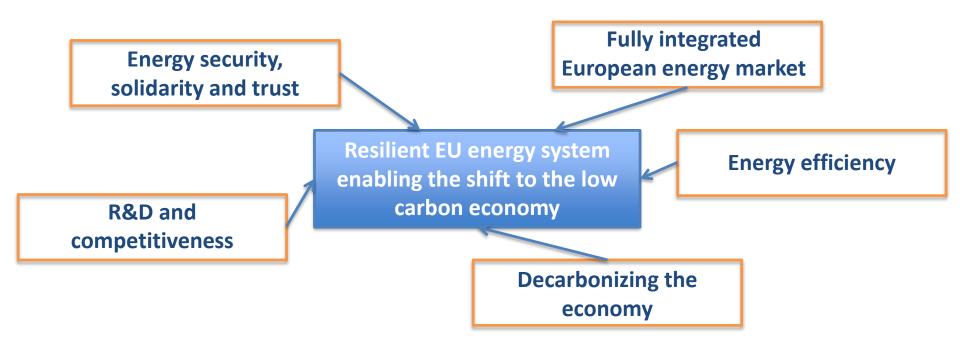
Vulnerability to supply crises emphasized the need for an EU "Energy Union"

- Amid concerns over Russia/Ukraine, initial proposal by Donald Tusk (Poland) to create an "Energy Union"
 - "develop a mechanism for jointly negotiating contracts with RF"
 - "guarantee solidarity between MS in case of energy supply cut"
 - "build the adequate energy infrastructures [...and] sign agreements with emerging suppliers"

→ Strong focus on security of supply

- Wide support from most MS: seen as an opportunity to build, at last, a more unified EU energy policy
 - Call for a 'joined-up' approach: improve consistency between competitiveness, SoS and env. objectives
 - Enhance dialogue/coordination on national energy policy choices
 - → Taking a more political approach to all energy challenges

The five "mutually-reinforcing and interrelated dimensions" of the Energy Union



→Essentially a clarification of the EU's priorities
 →Dynamic process: annual report on the state of the Energy Union
 →No substantial change in terms of governance

Can the "Energy Union" be the answer to the EU's gas SoS challenges?

- Domestic response
 - EU-wide preventive and emergency plans
 - Investment to facilitate the flow of gas throughout the EU network
- Push for supply diversification
 - Support for the Southern corridor
 - "LNG strategy": ensure reasonable prices and facilitate US imports
- Speaking with one voice
 - Collective purchasing of gas, on a voluntary basis
 - EC involved in Intergovernmental Agreements negotiations
 - Establishment of strategic energy partnerships with producing and transit countries

→ Clear recognition that the market alone cannot guarantee SoS

→ First test: deciding "jointly" on the future of South Stream



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Thank you for your attention

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