# Lessons from past EU pipeline projects:

Why projects need to be commercially viable and legally / regulatory sound

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OMV Gas & Power



### Introduction - Topics to be considered

- Situation Ukraine Russian Federation
- Gazprom announced to stop transit via Ukraine by the end of 2019
- South Stream is canceled or frozen
- Turkish Stream has been announced
- Various SEE gas corridors are being discussed
- National gas grids in SEE are isolated
- Baumgarten is the only gas hub in CE / SEE
- The SEE gas market is not the biggest in Europe but very important with respect to logistics
  - → Turn deficiencies and related risks into opportunities
  - → Lessons learned from past EU pipeline projects

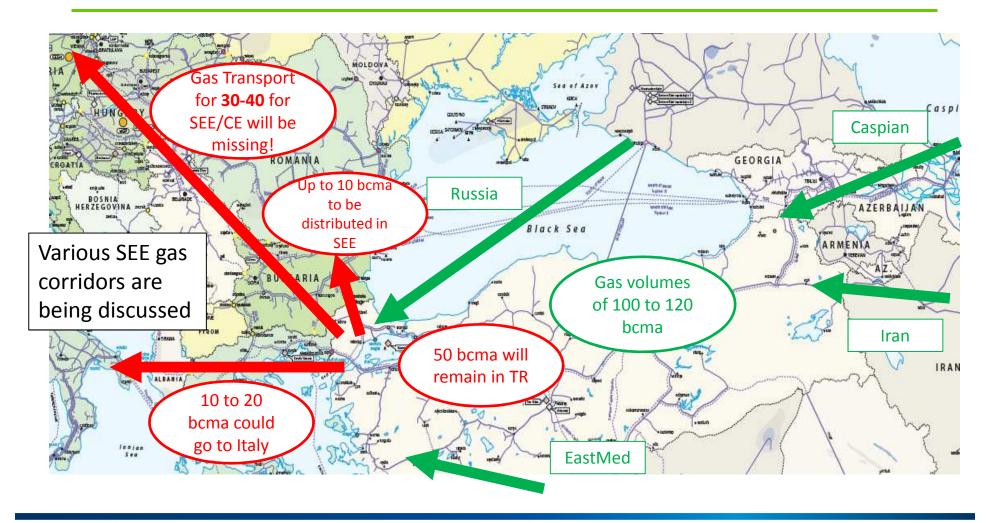


### Situation Ukraine – Russian Federation Gazprom announced to stop transit via Ukraine by the end of 2019

- Predictability of gas business models in Ukraine (UA) ?
  Neither pricing of gas imports to UA nor transit tariffs are contractually fixed mid to long term
- Technical reliability of the UA gas grid?
  Ukrtransgaz itself indicates a reinvestment need of EUR 3 to 5 bn A technical integrity check will be required
- UA gas demand and flexibility requirements in future?
- Appetite of European gas suppliers to deliver gas via reverse flow to UA?
  - Gas sellers and TSOs will need take or pay obligations from UA buyers to justify investments in infrastructure for an increase of the technical capacities for reverse flow

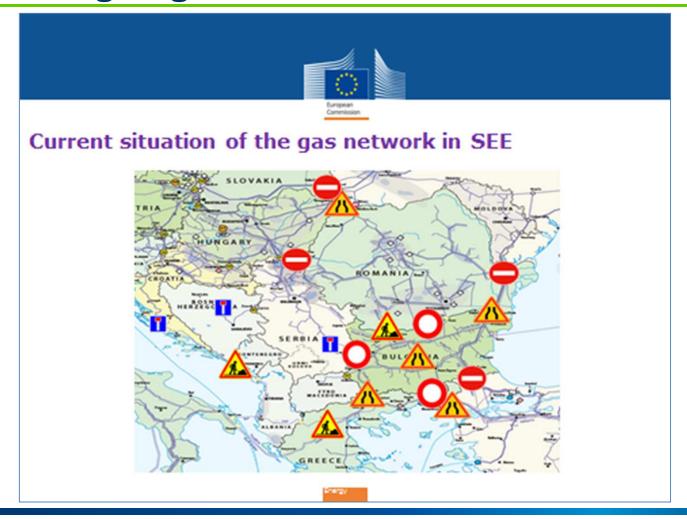


### South Stream is canceled or frozen Turkish Stream has been announced



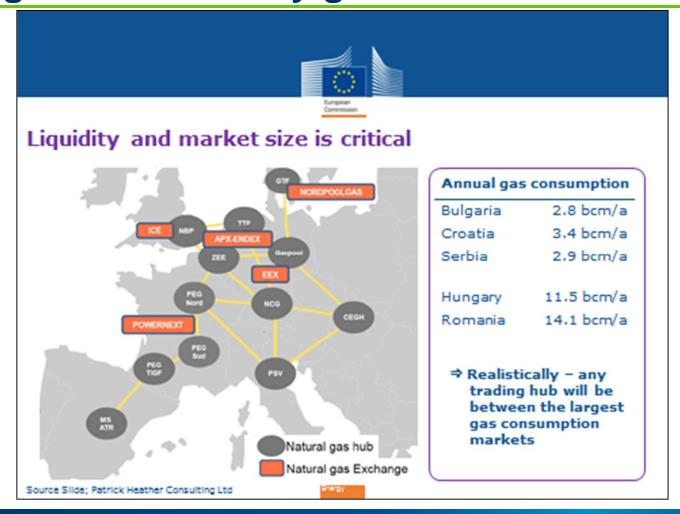


### National gas grids in SEE are isolated





### Baumgarten is the only gas hub in CE/SEE





## CE/ SEE gas markets are not the biggest in Europe but very important with respect to logistics

- A big part of the Russian gas imports to Europe flows via Slovakia to the CEGH in Baumgarten
- Delivery points of the gas are in Baumgarten and at various cross border points downstream Baumgarten
- Big gas storage volumes are located in Austria and Germany as a backup of Russian gas imports
- Turkey receives a considerable volume of Russian gas via Romania and Bulgaria and with Turkish Stream its importance will grow
- New corridors for Russian gas and for gas from other suppliers from Azerbaijan, Iran, EastMed are planned to be established in that region



## Turn deficiencies and related risks into opportunities

- National TSOs in SEE / CE to increase interconnectivity by installing bi-directional interconnectors
- Such interconnectors will not substitute a big gas corridor
- Storage system operators to increase storage volumes and capacities for injection and withdrawel with improved service level
- National regulators to coordinate actions of TSOs in the various countries and to align TYNDP
- Reach the Turkish border in the South to benefit from a connection to various gas sources
- Reach Baumgarten to roll out flexibility tools and hub activities to SEE
  - → Development of a transnational gas corridor with the most competitive transport regime



### Lessons from past EU projects I

- A cristal clear project charter is required
  - Shareholders
    - stock listed / state owned or mixed?
    - buyers / sellers of gas or mixed ?
    - ,national champions' or internationally experienced companies?
    - institutional investors / energy companies or mixed ?
    - access and exit rules to be defined
  - Governance
    - absolutely commercially driven decision process
    - quick decisions based on clear rules of procedure
    - clear majority rules and elimination of blockade possibility



### Lessons from past EU projects II

- The scope of the project has to be clear from day 1
  - Description of the project
  - completely new pipeline or combination of existing and new sections
  - Project schedule with sufficient buffer times
    - Acceleration measures increase CAPEX
    - Delays endanger the commercial success of the project due to the risk of high penalties
  - Starting point of the project / end point of the project
  - Volume profile
  - Routing
  - Entries and exits have to be defined
  - Branch line concept / flexibility concept



### Lessons from past EU projects III

- The legal and regulatory regime has to be clear from day 1
  - closed shareholders group or ,shareholder open season'
  - exemption or open season for transport capacity or mixed
  - shareholders and shippers have to get certainty on long term availability of transport capacity
    - for the fulfilment of long term supply contracts
    - for a proper financing concept for the project
  - a robust and aligned legal structure cross border is required
  - investment incentives must be offered and must not be eliminated over the life time of the project



### Lessons from past EU projects IV

- Contractual framework has to be defined in time
  - Intergovernmental Agreements and Host Governmental A.
  - Financing structure and agreements
  - Interconnection Point Agreements
    - cross border and
    - within countries with the national TSOs to connect efficiently to national gas grids and storage facilities
  - Operating philosophy and O&M Agreements
  - Balancing Agreements
  - Transport contracts



### Lessons from past EU projects V

- Project execution is a 100% competence and responsibility of the project company
  - clear procurement policies
  - clear compliance rules
  - clear reporting lines
  - freedom of choice for staffing
  - clear EIA / ESIA policies
  - → the company has the responsibility to develop the project before FID in a way to eliminate all kind of show stoppers during the execution period

