# FOURTH UKRAINIAN GAS FORUM

The future of the European gas market. The Quo vadis Project

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### **Table of Contents**



| A. | Objectives and scope of the study            | 2 |
|----|--|---|
| B. | Project approach overview                    | 3 |
| C. | Key principles of four alternative scenarios | 4 |
| D. | Results of the analysis                      | 5 |
| Ē. | Main conclusions and recommendations         | 6 |

### Objectives and scope of the study

Quo vadis EU gas market regulatory framework – Study on a Gas Market Design for Europe was created in 2017/2018 and involved interactions with 100+ stakeholders

### **Objectives:**

- ▶ To assess whether market functioning and overall welfare within the EU can be improved through a revision of the current internal market regulatory framework
- ▶ If so, what specific regulatory measures will lead to such improved welfare

**Task 1**: Assessment of the current regulatory framework for the EU gas sector from the point of view of maximizing overall EU welfare

Identify shortcomings & limitations of the current EU regulatory framework

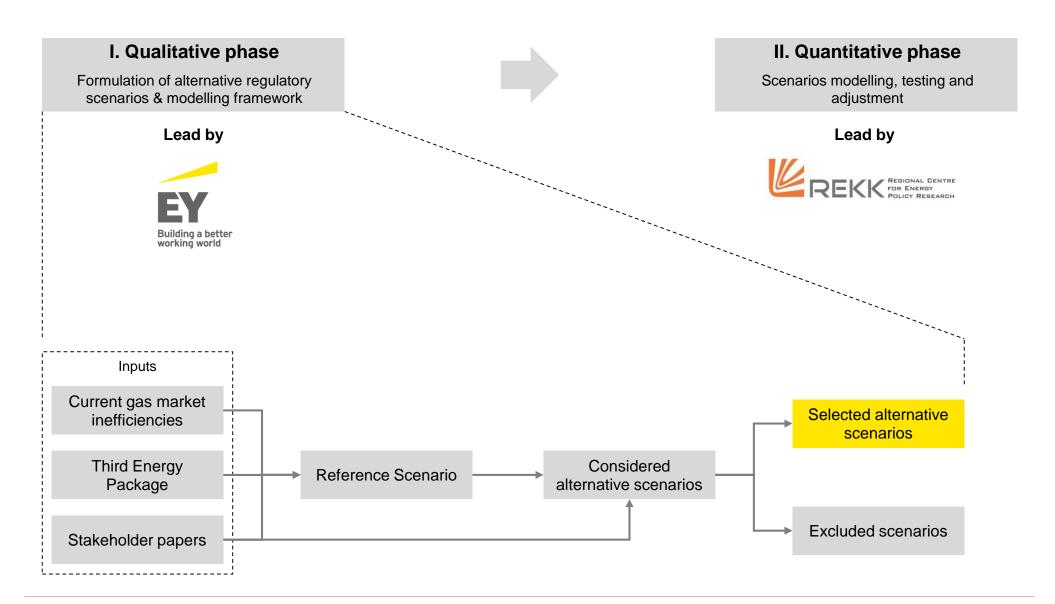
**Task 2**: Identification of possible recommendations for amending the regulatory framework

- Propose options to overcome potential shortcomings to the regulatory framework
- Options should have a positive overall impact
- → Using qualitative and consequent quantitative approach

Study was elaborated by EY (Czech Republic) in cooperation with REKK (Hungary) in the period of 04/2017 - 02/2018

### Project approach overview

EY lead the qualitative part of the analysis, formulated a reference scenario and alternative regulatory scenarios to be quantitatively analysed in Phase II



## Key principles of four alternative scenarios

Four scenarios were analysed in detail, 7+1 additional scenarios have been considered

#### 1. Tariff reform scenario

- Intra-EU cross-border tariffs set to zero
- Gas storage entry/exit tariff set to zero
- Harmonised EU entry/exit tariff
- Increasing gas supply competition & wholesale market liquidity

### 2. Trading zone merger (market merger)

- Merging of existing market zones with suitable network topology
- Reduction in contractual congestion and location spreads
- Increase in liquidity

### 3. Conditional market merger

- Merger of neighbouring zones separated by transmission capacities
- Single price as long as transmission capacity is available
- ▶ Gap in TSO revenues collected in higher tariffs at non-merged borders

### 4. Combined Capacity-Commodity Release

- ▶ Increase up to 50% in the share of short term transmission capacities for both existing and new infrastructure
- Obligation for gas producers/importers to sell at least 50% of their gas at the nearest VTP to their entry into the transmission grid in the EU

### + Extra-EU upstream - EU downstream strategic partnership concept

- Mutually beneficial agreement between the EU and Russia to integrate their gas markets
- ▶ Joint application of EU Third Package rules by the EU and Russia; Russia to liberalize its upstream sector for foreign investors, including EU majors and also to liberalize its pipeline exports to the EU
- No EU market share limitations on Russian molecules in its upstream sector

## Results of the analysis

Quantitative and qualitative analysis of the four main scenarios lead to recommend considering full implementation of the Combined Capacity-Commodity Release

#### Scenario 1. Tariff reform scenario

- ► Enhance price convergence and insure against the risk of future gas market segmentation in the EU
- Rather redistribute than increase welfare through increased cross-border trading
- Implementation turns highly beneficial under more turbulent sensitivity scenarios, which bring increased price divergence
- Design challenges (TSO Compensation Fund)

### 2. & 3. Market merger scenarios

- Moderate EU welfare improvements in those cases when wholesale price differences were still present before the merger
- ▶ 2 factors can undermine social benefits:
  - Additional cost of expanding the infrastructure for the merged zone (if needed)
  - Potential price increase in the countries neighbouring the merged zone due to the additional tariffs put on the zone's outside entry/exit points

### 4. Combined Capacity-Commodity Release

- A robust and focused measure which improves EU consumer welfare by an annual EUR 1.5-3 billion across the different sensitivity scenarios
- Sources of welfare improvements:
  - Increasing product market competition in less liquid CSEE countries (commodity release)
  - Improved efficiency in using the EU gas transmission infrastructure (capacity release)

### + Upstream – downstream strategic partnership

- Potential to significantly decrease EU gas wholesale prices
- However, this concept is highly hypothetic and intends only to initiate further thinking and research into potential cooperative solutions for the EU gas markets' most important problem that is high import dependence and simultaneous high market concentration

### Main conclusions and recommendations

Besides implementing the Combined Capacity-Commodity Release Scenario, we recommend to consider further adjustments and solutions to current shortcomings

### **Resulting policy recommendations**



Amend Regulation 2017/459 to increase the share of existing technical capacity that TSOs are obliged to set aside and offer for auctioning for yearly or shorter durations to 50% or more.

The same approach of increasing the share of yearly or shorter durations from 10% to 50% should also be considered for incremental capacity within the EU to prevent future market foreclosure



Consider the full implementation of the **Combined Capacity-Commodity Release Scenario**.

This would entail the amendment of Regulation 2017/459 as indicated in the former recommendation and the implementation of gas release programs for existing and future LTCs in the EU countries of entry for LTC commodity.



Consider the implementation of the Tariff Reform Scenario after further refining the design and implementation conditions of it as presented in the study.

Designs with add-on tariffs differentiated by EU entry, EU exit and domestic exit points as well as TCF (TSO Compensation Fund) implementation issues should further be considered.



Include the concept of a potential Strategic Partnership – and the corresponding liberalization of the Russian gas sector – on the agenda of **future EU-Russia energy dialogue** and negotiation process on Nord Stream 2 or DG Competition cases with the objective to promote a competitive EU gas upstream sector.

# Thank you for your attention.

Link for download of the full study or the executive summary of the study:

https://ec.europa.eu/energy/en/studies/study-quo-vadis-gas-market-regulatory-framework

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