

# POLAND'S ENERGY STRATEGY IN THE BALTIC REGION

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# **GAZ-SYSTEM – INTRODUCTORY INFORMATION**





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Denmark/Norway





**14** COMPRESSOR STATIONS

LENGHT OF TRANSMISSION SYSTEM

11,059 KM





100% SHARES HELD BY THE STATE TREASURY



TERMINAL LNG IN ŚWINOUJŚCIE

**VOLUME OF TRANSPORTED GAS IN 2017** 



Ko

5 BCM/Y (182 BCF/Y) **REGASIFICATION CAPACITY** 



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# GAS DISRUPTIONS IN EUROPE

- A number of "gas crises" experienced by Poland and other European countries (2004, 2006, 2009 and 2014).
- Grievous malpractices of the Russian supplier that interrupted gas deliveries due to non-technical reasons.
- Dominant position used by Gazprom to impose discriminatory practices.
- The need for diversification of supply sources and routes without political/risk factors.
- Saved costs of avoided gas disruptions in Poland and other countries - approx. 2,734 mUSD until 2042 estimated by reducing the risk of interruptions in gas supplies.





## NATURAL GAS MARKET IN THE CEE & BALTIC REGION

#### **DEMAND FORECASTS UNTIL 2035**

- Current gas demand in the CEE and Baltic regions amounts for approx. 81 bcm/y (2.86 tcf/y)
- Demand expected to increase up to 91 bcm/y (3.23 tcf/y)



#### **MAJOR GROWTH FACTORS**

- > Enhanced competitiveness vis-a-vis other sources in the energy market
- Climate and environmental considerations switch to lower emitting sources
- ► Natural gas in the power generation sector
- Transport and shipping sector (LNG as an alternative fuel)





# NORTHERN GATEWAY PROJECT



## THE ASSUMPTIONS:

- Diversification
- Gas-to-gas competition
- Flexible and efficient gas infrastructure
- Regional gas market

## LNG SUPPLIES VIA TERMINAL IN ŚWINOUJŚCIE

## NORWEGIAN SUPPLIES BY BALTIC PIPE PROJECT

# LNG TERMINAL IN ŚWINOUJŚCIE

## **Regasification Capacity**

5 bcm/y (182 bcf/y) - currently

7.5 bcm/y (273 bcf/y) – following extension

## Storage

Two storage tanks with capacity of 160,000 cm each

Possibility for the construction of a third storage tank (space reserved)

## Small scale services

Track loading available

Other services following the extension (bunkering, rail loading, transshipment

## **Capacity booking**

Current capacities booked

## Timetable

Commercial operations since June 2016





# LNG TERMINAL IN ŚWINOUJŚCIE











# THE ŚWINOUJŚCIE LNG TERMINAL EXPANSION PROJECT





# **BALTIC PIPE PROJECT – BASIC INFORMATION**

- Baltic Pipe as a strategic gas infrastructure project to ensure security of gas supplies and improve competition in the Baltic Sea region and Central-Eastern Europe (CEE).
- The project creates a new supply corridor from Norway via Denmark to Poland.
- Export possibilities from Poland to adjacent systems in the Baltic Sea region and CEE.
- Reverse flow from Poland to Denmark.
- Project promoters: Energinet (Danish TSO) and GAZ-SYSTEM (Polish TSO).
- The project widely recognised as a priority investment in the European Union (the status of Project of Common Interest granted by the European Commission).
- Financial assistance under the EU's Connecting Europe Facility (CEF) for the preparatory and design works.

## www.baltic-pipe.eu





ENERGINET	
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Co-financed by the Connecting Europe Facility of the European Union

# **BALTIC PIPE – MAJOR COMPONENTS**





# BALTIC PIPE - KEY FIGURES



1 bidirectional connection

Norway – Denmark - Poland



2 Project Partners GAZ-SYSTEM and Energinet



364 bcf/y

expected annual transmission volume





start of gas transmission



60.3 mUSD

European Union support for project works





estimated total length of the gas pipeline



4 number of compressor stations



2 years duration of construction works



Ś

6.7 – 12 MPa operating pressure

50 years expected operating period

# **BALTIC PIPE PROJECT**



- Diversification of supply sources, routes and counterparts
- Reduction of dependence on a single supply source
- Mitigation of exposure to supply disruptions from the East



- Enhanced competition between suppliers
- Price convergence
- New trading opportunities



- Reduction of gas prices
- Low transmission tariffs



- Promotion of natural gas as a low emission fuel in the economy
- Reduction of CO2 emissions
- Support for the integration of renewable energy sources





## CREATING A REGIONAL NATURAL GAS MARKET

#### **POLAND – UKRAINE INTERCONNECTION:**

- Capacity: 5 bcm/y (182 bcf/y) towards UA and PL
- Project role: connection of Poland's and Ukraine's systems to diversify gas supplies for Ukraine and further integrate transmission networks and markets in Eastern Europe

#### **POLAND – CZECH REPUBLIC INTERCONNECTION:**

- Capacity: 5 bcm/y (182 bcf/y) towards CZ, 6.5 bcm/y (236 bcf/y) towards PL
- Project role: integration of the gas markets by creating a large transportation corridor between both countries

#### **POLAND – SLOVAKIA INTERCONNECTION:**

- Capacity: 4.7 bcm/y (171 bcf/y) towards SK, 5.7 bcm/y (207 bcf/y) towards PL
- Project role: integration of the gas markets by creating a large transportation corridor between both countries
- Final investment decision taken in 2018

#### POLAND – LITHUANIA INTERCONNECTION:

- Capacity: 2.4 (87 bcf/y) bcm/y towards LT, 1.9 bcm/y (69 bcf/y) towards PL
- Project role: integration of the isolated gas markets in the East Baltic region, diversification of supply
- Final investment decision taken in 2018





## NATURAL GAS MARKET DEVELOPMENT IN POLAND





## STRENGTHENING SECURITY OF SUPPLY AND MARKET INTEGRATION AT THE EU LEVEL

### **SOS REGULATION**

- New Regulation puts more attention to security of supply on a regional level;
- Introduces the "solidarity principle" aimed at ensuring support among Member States;
- Highlights the importance of n-1 rule;
- Focused on building regions based on the main supply corridor;

### GAS DIRECTIVE

- EC proposal aimed at including pipelines from third countries into the scope of the Gas Directive; it would ensure level playing field for all players on the EU market;
- The EC proposal is widely supported by a number of EU Member States.
- Ongoing discussion from November 2017;
- The European Parliament already prepared its position. Now it is time for the Council to reach an agreement.
- Austria assumed the Presidency in the Council in July 2018. Austrian companies are directly involved in the Nord Stream 2 project and therefore strongly oppose to the amendment. Therefore, the process has been frozen by the Austrian presidency



# CONCLUSIONS

### CHALLENGES

- Relatively immature markets compared to North-West Europe
- Strongly dominated by RU supplies, largely based on oil-indexed pricing formula
- Fragmented and highly exposed to supply disruptions

### REMEDIES

- Enhancing direct access to new supply sources such as LNG and Norwegian gas
- Integration of gas infrastructure between the Baltic and CEE countries
- Exploring new market opportunities for LNG

#### **EXPECTED RESULTS**

- Creation of a regional market with secure and diversified supply portfolio
- Fostering competition and liquidity
- Improvement of competitive position of natural gas via-a-vis other sources of energy
- Creation of conditions for further development of the regional gas market





# THANK YOU FOR YOUR ATTENTION

