



SLOVAK GAS TSO



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**GAS CROSSROADS  
OF CENTRAL EUROPE**



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## EUSTREAM – GAS CROSSROADS OF CENTRAL EUROPE

EUSTREAM is a modern company with a longstanding tradition and extensive experience in the transmission of natural gas. Our transmission system, which passes through the Slovak Republic,

comprises a reliable segment of the international transmission network and is one of the most important transmission routes for natural gas to Europe and the European Union.

### At a glance

- Slovak gas transmission system operator
- Natural gas transmission to the European Union and other European countries
- Important role in supplying Europe for over 40 years
- Key energy connection for the European Union
- Advantageous geographical position at the heart of Europe
- Connection to underground gas storages
- Strong reputation as a reliable partner and one of the largest carriers of natural gas to the European Union
- Established portfolio of long-term and short-term contracts
- On list of companies of strategic importance for the Slovak economy

More than **40**  
years of reliable, safe  
and effective operation

Each year EUSTREAM transports  
almost **10 %**  
of the EU's annual gas consumption

Our annual technical capacity is  
**15 x**  
greater than the annual  
consumption of gas in Slovakia

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**24,400,000,000** MWh (2.3 trillion m<sup>3</sup>)  
of natural gas transported in the transmission network of EUSTREAM



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## OPTIMISE YOUR GAS BUSINESS WITH OUR SERVICES

EUSTREAM pursues the gas transmission on an Entry – Exit principle. Transparent and non-discriminate access to the Slovak transmission network, in full compliance with European and Slovak gas industry legislation, is assured for network users – shippers, with reserved transmission capacity, as well as for gas traders. The customer can select any of the six entry or exit points at entry or exit to/from

the transmission system of EUSTREAM – **Veľké Kapušany** and **Budince** (only exit point) at the Ukrainian border, Baumgarten at the Austrian border, **Lanžhot** at the Czech border, **Veľké Zlievce** at the Hungarian border and **Domestic point**, virtual aggregated connection point for access to the Slovak distribution network and to underground gas storages in Slovakia.

With EUSTREAM you get a safe and reliable transmission corridor. EUSTREAM offers flexible booking of transmission capacities and supplementary services and products, such as Title Transfer, increased flexibility, trading with gas in the Virtual Trading Point (VTP) or services of short-term parking and loaning of gas in the VTP. EUSTREAM provides services in energy units (kWh and MWh) throughout the gas day from 6:00 am to 6:00 am.

### Broad range of services and products

- Flexible booking of transmission capacities
- Title Transfer
- Day-ahead products
- Virtual Trading Point
- Parking and Loaning
- Back-up and Back-down

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**6**

entry-exit points

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Almost **500,000** GWh

(50 billion m<sup>3</sup>) of gas transported  
in a single year

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Over **500**

confirmed transmission capacity  
reservations a year

Transmission to

**Austria, Czech Republic, Hungary** and **Ukraine**

as well as to other countries of the European Union, foremost Germany and Italy



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**2 288** GWh

(220 million m<sup>3</sup>) of daily technical capacity

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More than **800,000** GWh

(80 billion m<sup>3</sup>) of annual technical capacity

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**7,35** MPa

of operating pressure

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**2 330** km

of transmission system length

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**4 – 5** parallel lines

with 1,200/1,400 mm of diameter

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**4**

compressor stations

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Almost **600** MW

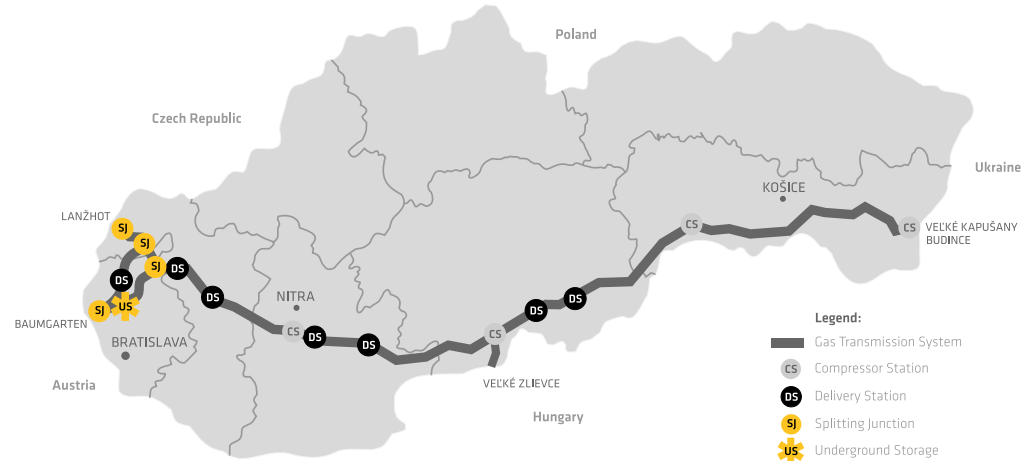
of compression output

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## MORE THAN 40 YEARS OF RELIABLE, SAFE AND EFFICIENT OPERATION

EUSTREAM is the operator of the large-scale high-pressure transmission network in the Slovak Republic comprising four or five parallel pipelines of diameters 1 200 and 1 400 mm. The output required for the smooth flow of gas is facilitated by four

compressor stations. The most important of these is the compressor station at the Slovakia-Ukraine border in Veľké Kapušany. With a totalled installed output of almost 300 MW, it is the biggest compressor station in the European Union.



### Transmission system

- Large-scale high-pressure natural gas transmission system
- Natural gas transmission in various directions and reverse flow
- Flexible reaction to the requirements for the transported gas volume
- Optimised infrastructure of the transmission system
- Modern fleet of compressors and turbines units
- Innovative mobile solutions and environmental technologies

## RAISING THE ENERGY SECURITY OF EUROPE

EUSTREAM contributes to the security and reliability of gas deliveries to Europe. EUSTREAM is working on extending and strengthening the European gas infrastructure and diversification of natural gas

transmission routes. EUSTREAM is building up and planning new international pipeline connections with links to the transmission routes of other European countries.

### ● FLEXIBLE TRANSPORT IN VARIOUS DIRECTIONS (REVERSE FLOW)

For several years EUSTREAM has been offering the reverse flow of natural gas from the Czech Republic, Austria and Hungary.

### ● SLOVAKIA-HUNGARY INTERCONNECTOR

The completed bidirectional gas pipeline connection links up the high-pressure transmission systems between Velké Zlievce on the Slovak side and the Hungarian village of Vecsés in the suburbs of Budapest.

**46,000** GWh

of annual capacity  
(4.4 billion m<sup>3</sup>)

**110.7** km

of pipeline length (18.6 km in the Slovak territory and 92.1 km in Hungary)

### ● SLOVAKIA-UKRAINE REVERSE PIPELINE CONNECTION

In record time of just a few months, in 2014 at the request of the European Union and repeated calls

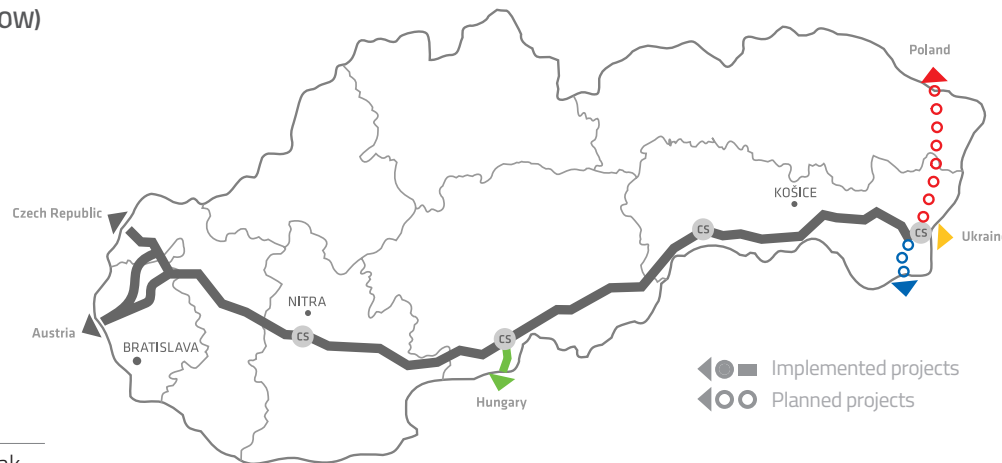
from Ukraine, EUSTREAM established a reverse flow gas pipeline in the direction of Ukraine.

**419** GWh

of daily capacity (40 million m<sup>3</sup>)

**152,000** GWh

of annual capacity (14.6 billion m<sup>3</sup>)



**164** km

of pipeline length (106 km in the Slovak territory and 58 km in Poland)

**49,000** GWh (4.7 billion m<sup>3</sup>)

annual capacity in the direction PL-SK

### ○ POLAND-SLOVAKIA INTERCONNECTOR

The prepared Poland-Slovakia interconnector is among the priorities of the European Union (PCI – project of common interest) and part of the European Energy Security Strategy. In addition to EUSTREAM, the project partner is the company GAZ-SYSTEM, operator of the transmission system in Poland.

The recommended route for the pipeline is the so-called eastern variant, which would mean the transmission networks interconnection between the Polish village of Strachocina and the Slovak town of Veľké Kapušany. The new pipeline would therefore utilise the compression capacity of the largest compressor station in Europe.

- Part of the planned European North-South Gas Corridor
- Access to other gas corridors and to the LNG terminal in Świnoujście, Poland
- Launch to commercial operation in 2019

**59,000** GWh (5.7 billion m<sup>3</sup>)

annual capacity in the direction SK-PL



## ○ EASTRING – A SOLUTION FOR THE BALKANS, A SOLUTION FOR EUROPE



EASTRING is a new pipeline project for central and South-eastern Europe which represents an important step to the single European gas market in the vision of the Energy Union.

- Connects the transit systems of Slovakia, Hungary/Ukraine, Bulgaria and Romania
- Bi-directional conjunction between Europe and natural gas reserves of the Caspian region and the Middle East
- Full compliance with all EU rules and their spirit;
- Most economic and environmentally friendly solution as utilizing to the maximum of the existing infrastructure;
- Launch to commercial operation in 2019

