

Transportgas Srbija LLC Novi Sad

Progress in EU Network Codes Implementation and Market Development

SEEGAS – Vienna 2026

About Us

Transportgas Serbia is the certified Independent Transmission System Operator (ITO model) of the natural gas transmission system in the Republic of Serbia.

- Total network length: **2,691 km**
- Annual transported volume (2025): **30.794.705,24 MWh**
- Number of compressor stations: **1**
- Number of metering and regulation stations: **200**

Core responsibilities:

- Operation of the transmission system
- Capacity allocation
- Nominations and operational system management
- System development planning

Since January 2026, by Decision of the Government of the Republic of Serbia, Transportgas has been designated as the Market Administrator for the natural gas market.

Transmission System Overview

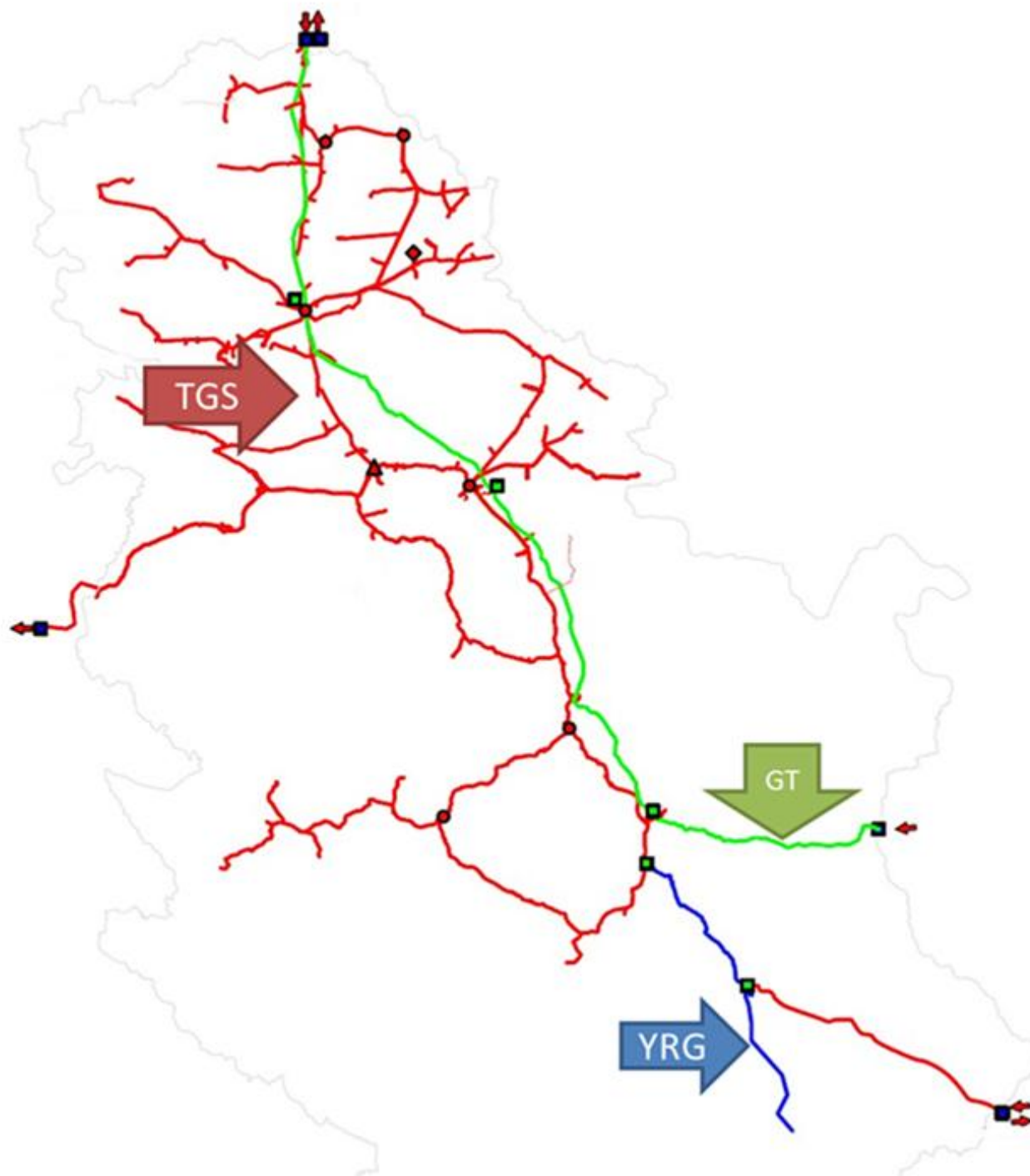
Serbia's transmission system consists of:

- Transportgas Srbija (IP Horgoš1, IP Loznica, IP Srbija, and IP Dimitrovgrad)
- Gastrans (transit IP Zaječar → IP Horgoš2)
- Yugorosgaz (IP Trupale-IP Pojate)
- Operating pressure range: 25–65 bar

Ownership of the transmission system:

- Gas infrastruktura LLC – operated under a **Lease Agreement**
- NIS a.d. – operated under a **Lease Agreement**
- Third parties – operated under **individual contractual arrangements**
- The average age of the gas pipeline network is approximately 33 years.
- Nominal operational lifetime: 40 years
- Operational lifetime may be extended following completion of an intelligent pipeline inspection.

Age (years)	Over 50	40-50	30-40	20-30	10-20	1-10	Total
Length (m)	294.780	1.094.442	304.506	250.172	308.480	438.306	2.690.686
Share (%)	10,96	40,68	11,32	9,30	11,47	16,29	100





Interconnections with Bulgaria (Kalotina / Dimitrovgrad)

- IP Kalotina/Dimitrovgrad – firm technical capacity: **53,244,000 kWh/day**
- Reverse capacities: **BG→RS 7.8 GWh/day, RS→BG 4.4 GWh/day**
- ICA signed with Bulgartransgaz, active both directions

Pressure range: **25–45 bar**

Since this pipeline had **no exit point** until its connection to the **Yugorosgaz transmission system**, Transportgas Srbija was required to **reduce its firm technical available capacity** to the level defined by the **Operational Regime Agreement with Yugorosgaz Transport**, which equals **26,163,248 kWh/day**.

Interconnections with Hungary (Horgoš / Kiskundorozsma)

- IP Horgoš – firm technical capacity: **141,977,184 kWh/day**
- Physical direction HU→RS; backhaul possible upon agreement
- Pressure range: 43,2–51 bar

IP Serbia (Gastrans)

- Entry point from the Gastrans transmission system into Transportgas Srbija. Comprises three entry stations in Serbia: GMS2 Paraćin, GMS3 Pančevo, and GMS4 Gospođinci — together forming the interconnection point **IP Serbia**.
- Firm technical capacity: **120,966,144 kWh/day**

Maximum technical capacities:

- * GMS2 – **23,027,435** • GMS3 – **43,714,558** • GMS4 – **68,678,730 kWh/day**
- Flow direction: Normal Gastrans → Transportgas Srbija;

Reverse flow: only as backhaul (interruptible), limited to the booked firm capacity in the physical direction.

IP Loznica (Zvornik)

- Interconnection point between Serbia and Bosnia & Herzegovina, connecting the Transportgas Srbija and Gas Promet Pale transmission systems.
- Flow direction: Normal Transportgas Srbija → Gas Promet Pale
- Firm technical capacity: **21,000,000 kWh/day**

Reverse direction: Gas Promet Pale → Transportgas Srbija

- Possible only in emergency situations, if pressure at GMS Zvornik remains ≥ 30 bar
- Technical capacity in reverse direction not guaranteed

UGS Banatski Dvor

Operator: PSG Banatski Dvor d.o.o., Novi Sad (Serbia)

Ownership Structure: Gazprom International Projects d.o.o. – 51% share, and Public Enterprise “Srbijagas” (Republic of Serbia) – 49% share

Injection: **29,581,767 kWh/day**

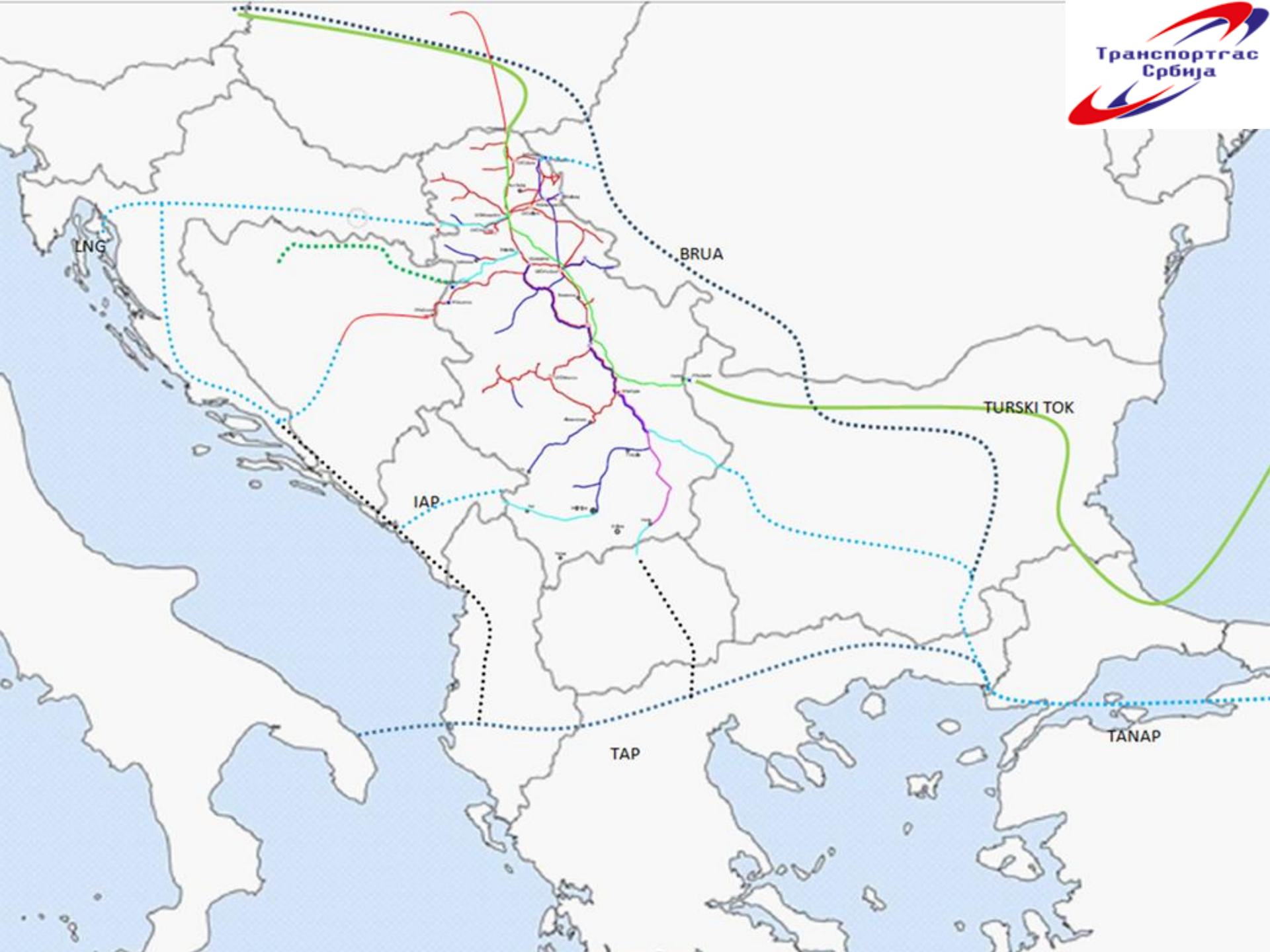
Withdrawal: **52,824,584 kWh/day**

Connected to Major Transmission Node Gospođinci (pressure 28–42,7 bar)

TEN-YEAR DEVELOPMENT PLAN

Planned / Proposed Interconnections

- Mokrin (RS–RO) | Linked to Transgaz Romania
- Vranje/Strezovac (RS–MK) | Connection to North Macedonia
- Bačko Novo Selo (RS–HR) | Cooperation with Plinacro Croatia
- Montenegro | Early-stage feasibility



Regulatory and Institutional Progress (2024–2026)

Key milestones:

- Certification as an Independent Transmission System Operator (ITO)
- Granting of the Natural Gas Transmission License
- Adoption of new Network Rules aligned with EU Network Codes
- Approval of tariff methodology compliant with NC TAR

Transportgas is undergoing an intensive modernization phase.

Implementation of NC CAM

All interconnection capacities are available on the Transportgas capacity platform:

kp.transportgas-srbija.com

Functionalities include:

- Publication of available capacity
- Capacity booking requests
- Allocation procedures
- Transparency of results

The Regional Booking Platform (RBP) has been successfully implemented, and annual capacity products for the 2026/2027 gas year have already been published in line with the ENTSOG auction calendar.

***Annual capacity products are scheduled to be published prior to the presentation date.**

KP PLATFORM - kp.transportgas-srbija.com



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Entries and Exits - Status on 03/03/2026

Search date:


DP1 - PGE ИЗЛАЗ

Capacity:	Firm	Reverse
Technical:	6.156.000	-
Contracted:	3.650.011	-
Available:	2.505.989	-


DP11 - ППС ЖУТИ КАНАЛ

Capacity:	Firm	Reverse
Technical:	4.062.960	-
Contracted:	1.200.011	-
Available:	2.862.949	-


DP3 - СГС МАРТОНОШ ЗАПАД

Capacity:	Firm	Reverse
Technical:	513.000	-
Contracted:	90.011	-
Available:	422.989	-

Transparency

- Transportgas Srbija has developed a dedicated web platform – <https://kp.transportgas-srbija.com/> – enabling online booking of firm capacities and transparent publication of capacity offers.
- Registered network users receive individual credentials and can use the platform to book monthly and daily firm capacities.
- The platform also provides public access to data on available capacities, both at interconnection points and domestic points within the system.
- Although the system still requires further improvements and refinements, Transportgas Srbija is actively working on enhancing transparency and expanding functionalities.

IT and Operational Systems

Transportgas has developed and implemented several operational systems:

- SCADA system
- Capacity and nomination platform
- Metering data platform
- Gas quality monitoring system

Data is collected from:

- Metering devices
- Gas chromatographs
- Flow computers
- Neighboring TSOs

These systems form the foundation for future balancing market implementation.

SCADA SYSTEM

Transportgas Serbia operates a Siemens SIMATIC WinCC OA SCADA system as the core platform for real-time monitoring and control of the transmission network. The system collects operational data from all transmission stations, including cross-border data exchange with neighboring TSOs, and enables remote supervision and control of gas nodes and the compressor station.



Metering Data Platform

The Metering Platform is a custom-made solution developed by Siemens Energy Serbia in accordance with Transportgas requirements. The platform collects real-time, hourly, and daily data from all metering stations, including gas quality data from chromatographs, and enables data exchange with neighboring transmission system operators.


MERNA PLATFORMA

Broj aktivnih sesija 15

● ULAZI ● IZLAZI ● KVALITETI

Zatvori/Otvori sve   Osveži status uređaja

- > ● DP1 RGE IZLAZ
- > ● DP11 PPS ZUTI KANAL
- > ● DP13 VELIKA GREDA JUG
- DP14 SGS BAN. DVOR-REGENERATOR
- DP15 SGS BEGEJCI
- DP2 SGS CANTAVIR
- > ● DP3 SGS MARTONOŠ ZAPAD
- > ● DP4 SGS BANATSKI DVOR
- > ● DP5 SGS SRPSKI ITEBEJ
- > ● DP6 SGS MEĐA
- > ● DP7 SGS BANATSKI DVOR ZAPAD
- > ● DP8 SGS NOVO MILOŠEVO
- > ● DP9 SGS ŽITIŠTE
- > ● GMS2 GMS2 PARAČIN
- > ● GMS3 GMS3 PANČEVO
- > ● GMS4 GMS4 GOSPODIINCI
- GT IP SRBIJA
- > ● S1 PSG BANATSKI DVOR
- > ● U1 PPS Horgos HUN/SRB
- > ● U2 IP KALOTINA/DIMITROVGRAD
- > ● U3 PPS POJATE - ULAZ

Merna platforma

RBR	Tip uređaja	[°C]	Šifra	Naziv stanice	Naziv ulaza/izlaza	Linija	Fabrički broj	KV šifra	IP	Kvalitet	Napomena	Status
1	INTERKONTEKTOR BTG TGS	0	U2	IP KALOTINA/DIMITROVGRAD	IP KALOTINA/DIMITROVGRAD	1	10.1.2.2-1	093	10.1.2.2	GMS KALOTINA	KALOTINA	AKTIVAN
2	INTERKONTEKTOR BTG TGS	0	U2	IP KALOTINA/DIMITROVGRAD	IP KALOTINA/DIMITROVGRAD	2	10.1.2.2-2	093	10.1.2.2	GMS KALOTINA	KALOTINA	AKTIVAN

Dnevna arhiva Satna arhiva Trenutna arhiva

RBR	Vreme očitavanja ↑↓	Linija	SVEDENO NA [°C]	STANJE KORIGOVANO [Sm³]	KOLIČINA KORIGOVANA [Sm³]	RAZLIKA KORIGOVANO* [Sm³]	STANJE NEKORIGOVANO [m³]	KOLIČINA NEKORIGOVANA [m³]	PRITISAK [bar]	TEMPE
1	03.03.2026 07:00:00	1	0		1,042,770.10				33.28	
2	02.03.2026 07:00:00	1	0		1,033,125.80				33.29	
3	01.03.2026 07:00:00	1	0		1,033,428.30				33.18	
4	28.02.2026 07:00:00	1	0		1,006,385.30				33.12	
5	27.02.2026 07:00:00	1	0		1,049,272.10				33.19	
6	26.02.2026 07:00:00	1	0		1,046,156.20				33.09	
TOTAL:					60,093,290.20			0.00		






Implementation of NC BAL – Current Status

The implementation of a balancing platform represents the next step in market development.

At this stage, a transitional balancing model approved by the regulator ensures system stability and compliance.

This approach ensures secure and stable system operation during the transition phase.

Transition Challenges

Main challenges:

- Simultaneous implementation of multiple EU Network Codes
- Development of new IT platforms
- Migration from legacy infrastructure
- Institutional and market transition
- Capacity building and staff training

A phased and structured implementation approach is necessary to ensure system security.

Development of a New Operational Platform

Transportgas has launched a tender for a new operational platform.

The platform will enable:

- Capacity management
- Nominations
- Reporting
- Integration with other systems
- Interoperability with neighboring TSOs

This represents a key step toward full compliance with EU regulatory requirements.

Application of NC TAR

On January 30, 2025 Energy Agency of the Republic of Serbia adopted a new Methodology for Setting Natural Gas Transmission. Tariff in accordance with the Decree on Network Code on Harmonised Natural Gas Transmission Tariffs.

The regulation method applied in this Methodology is based:

- on the regulatory regime „rate of return“ in line with which the level of allowed revenue for the regulatory period is set for the TSO
- on the allocation of allowed revenue to tariff elements and the calculation of tariffs, based on entry-exit system and by application of model „capacity-weighted“ distance.

If more than one TSO perform natural gas transmission and transmission system operation on the territory of the Republic of Serbia at regulated prices, they are obliged to apply this Methodology jointly.

In line with the new Methodology, the Energy Agency adopted a Decision on Joint Natural Gas Transmission Tariffs, which are applied by “Transportgas Srbija” LLC Novi Sad and “Yugorosgaz-Transport” LLC Niš starting from October 1, 2025.

Next Steps

Key objectives:

- Implementation of the Regional Booking Platform (RBP)
- Development of a balancing market
- Further IT system enhancement
- Gradual market opening
- Full regional market integration

Conclusion

Transportgas is in an intensive modernization phase.

Significant progress has been achieved in:

- Implementation of EU Network Codes
- Development of digital systems
- Transparency and regulatory alignment

A structured and phased transition remains essential to ensure system security and sustainable market development.

THANK YOU