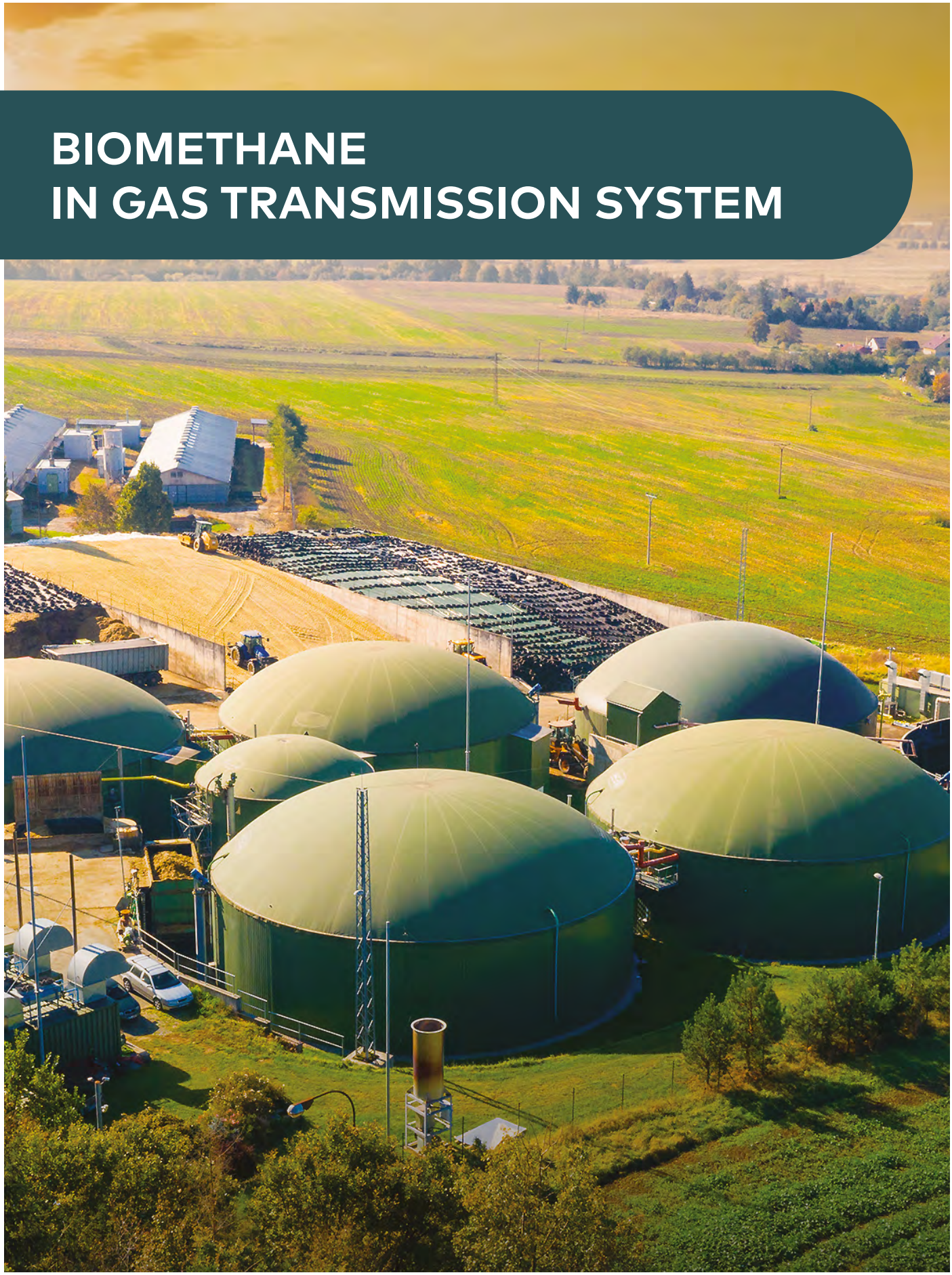
BIOMETHANE IN GAS TRANSMISSION SYSTEM



Biomethane in GAZ-SYSTEM

GAZ system

ABOUT GAZ-SYSTEM

GAZ- SYSTEM is a state-owned company of strategic importance for the Polish economy and the country's energy security. The enterprise in charge of natural gas transmission, management and operation of the **high-pressure natural gas transmission system**.

The **State Treasury owns 100% of GAZ-SYSTEM shares** while the Government Plenipotentiary for Strategic Energy Infrastructure exercises ownership supervision.

Gas Transmission System Operator in Poland

Owner and Operator of the LNG Terminal in Świnoujście

Operator of the Polish section of the Transit Gas Pipeline System Yamal- Europe

Owner of Gas Storage Poland - the Gas Storage System Operator

GSA Platform

Operator of the Capacity Booking Platform

GIIP GAS INSIDE INFORMATION PLATFORM

Operator of Gas Inside Information Platform for publications according to REMIT

TEL STER

Owner of TEL-STER company operating on SCADA software market

THE ROLE OF GAZ-SYSTEM IN ENERGY TRANSITION

NATURAL GAS	HYDROGEN	BIOMETHANE	CO_2
Ensuring adequate levels of supply and diversification of sources to meet the demand for natural gas as a bridge fuel in the energy transition process	**Hydrogen market development** Development of dedicated infrastructure for the transmission of pure hydrogen **across the country and within the European Union** **Adapting selected elements** of the existing infrastructure the transmission of pure hydrogen	Enabling the injection of produced biomethane into the transmission network Supplying biomethane to customers connected to the NTS Decarbonisation of transmission infrastructure **by enabling transmission of biomethane**	Maximizing efforts to reduce greenhouse gas emissions throughout the entire value chain

A injection point is an alternative to the traditional direct connection of a biomethane production plant to the gas transmission network.

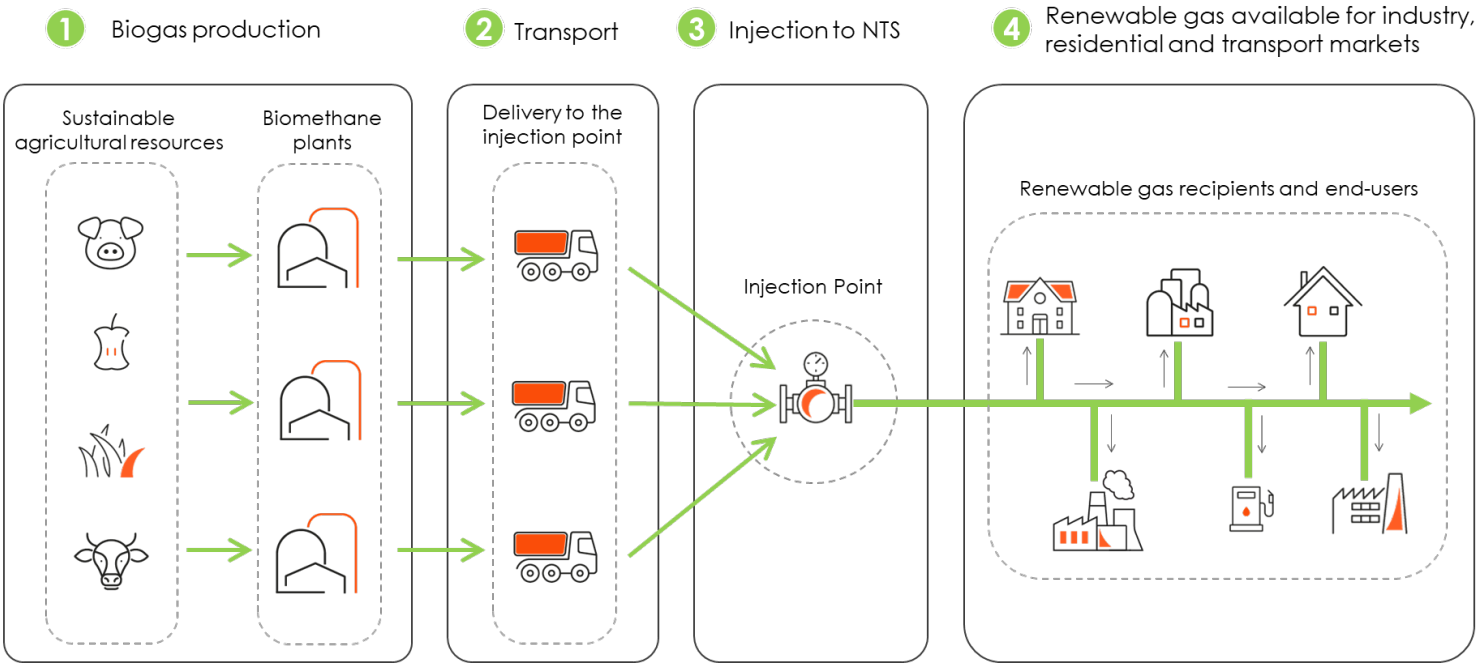
This solution streamlines the biogas plant investment process by eliminating the necessity to build a gas pipeline connecting the plant to the gas network, and therefore also reduces the unit costs of construction.

INJECTION POINT

A place for injecting biomethane delivered to the gas transmission system by other means than by gas pipelines, e.g. as CNG by road transport.

This solution contributes to faster development of biomethane market, and 'greening' the domestic gas transmission networks.

OVERVIEW OF THE INJECTION POINT



ADVANTAGES OF BUILDING INJECTION POINT

SELECTION CRITERIA FOR PROPOSED LOCATIONS OF INJECTION POINTS

- substrate potential, biomethane production potential, investment potential
- available road infrastructure enabling continuous and uninterrupted biomethane supply
- availability of land for the construction of necessary infrastructure
- considerations of the local Area Development Plan
- existing developed facilities, building permits (including notifications) and environmental decisions obtained

DIRECT CONNECTION TO GAS TRANSMISSION SYSTEM

Owing to the high capacity of gas transmission pipelines, the National Transmission System enables biogas produced by e.g. biomethane plants to be injected to the system without quantitative restrictions. In practice, the quantity of biogas supplied to the network is not limited by fluctuations in demand.

Connection Agreement

The cooperation between a biomethane producer and GAZ-SYSTEM S.A. starts upon the conclusion of a Connection Agreement. To conclude the agreement, an application for the determination of conditions for connection shall be submitted via the IES portal on the Operator's website. Once the conditions for connection have been determined, a Connection Agreement is concluded, and the connection is established. Following the completion of the Connection Agreement, biomethane producer operating a plant connected to the injection point and GAZ-SYSTEM S.A. proceed with a Cooperation Agreement.

Transmission Agreement

To supply biomethane from the producer's plant, a Transmission Agreement must be concluded, and transmission capacity allocated by the entity introducing biomethane to the gas market. More details on the cooperation with users of gas transmission system are set out in the Transmission Code and the Tariff. General terms and conditions are also presented to users in numerous presentations available on the Operator's website.

LINKS WITH REFERENCES

Connection to the National Transmission System

https://www.gaz-system.pl/en/for-customers/services-in-the-nts/connection-to-the-nts.html

Map of Gas Transmission System GAZ-SYSTEM S.A.

https://mapa.gaz-system.pl/

Information Exchange System

https://swi.gaz-system.pl/

Contact details

https://www.gaz-system.pl/en/contact/for-stakeholders/for-customers.html