

Rethinking traditional energy sources and routes of supply

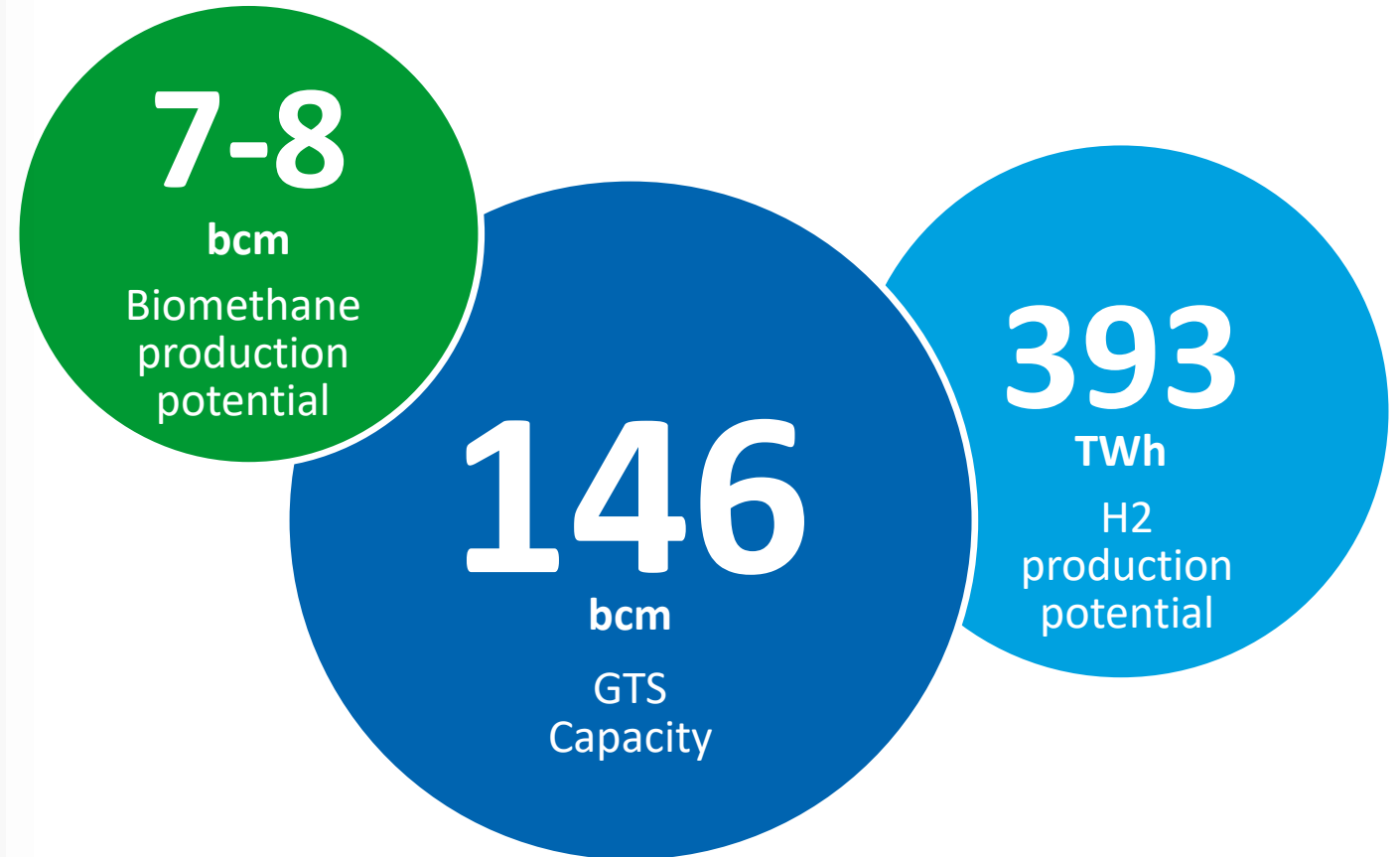
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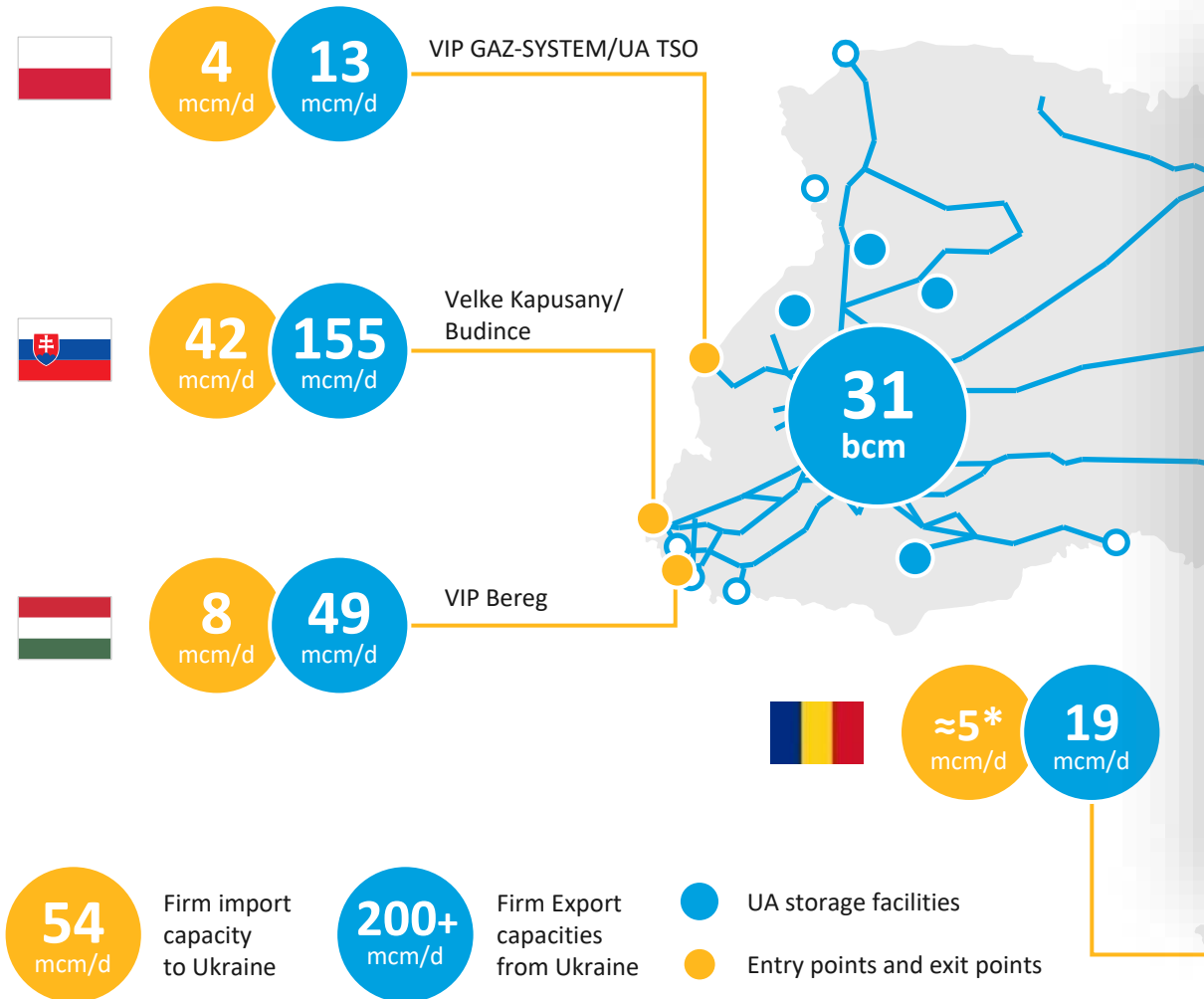
November 2023

Ukrainian opportunities for Europe: gas infrastructure, biomethane and hydrogen production

- Reliable routes for gas exports to the EU with **more than 200 mcm/d capacity**
- Connecting the surplus gas markets in **Southern Europe** and consumers in **Central and Eastern Europe**
- Adopted technical requirements and regulations for production and cross-border **biomethane** trade
- GTSOU and European TSOs work together to create **hydrogen future for the EU**



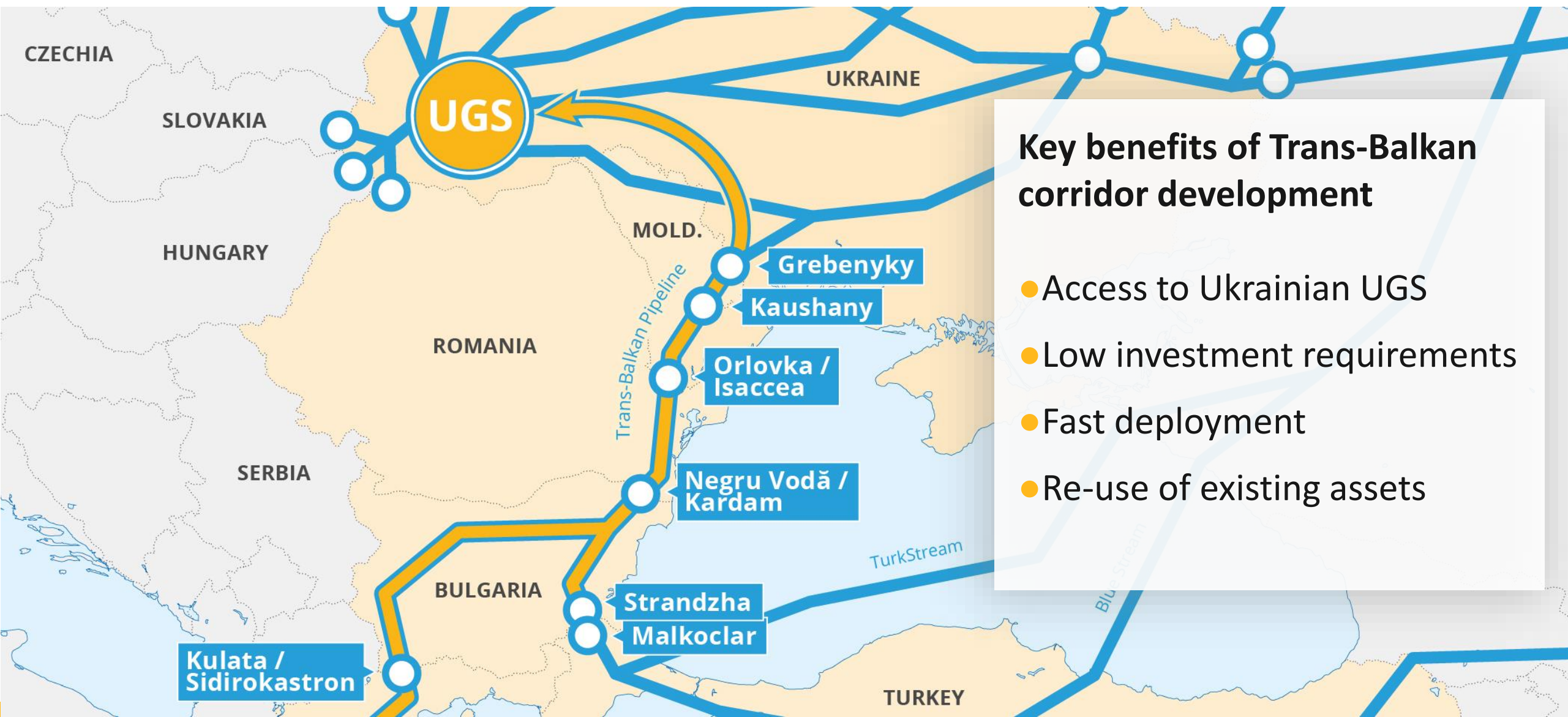
Ukrainian GTS provides access to the largest UGS facilities in Europe



- Extensive spare capacities of entry/exit cross-border IPs with 4 EU countries and Moldova
- Powerful underground gas storages at competitive prices
- Infrastructure in place to create capable bridge between Southern and Central Europe

* Use of the Trans-Balkan route requires booking the capacities of MD GTS. Indicated capacities of virtual reverse.

Rethinking Trans-Balkan corridor can strengthen security of gas supply in the region



Key benefits of Trans-Balkan corridor development

- Access to Ukrainian UGS
- Low investment requirements
- Fast deployment
- Re-use of existing assets

Unlocking of biomethane potential

In 2023, the National Energy Regulator of Ukraine allowed biomethane producers to connect to the GTS through gas distribution systems networks

Key advantages of the decision for biomethane producers

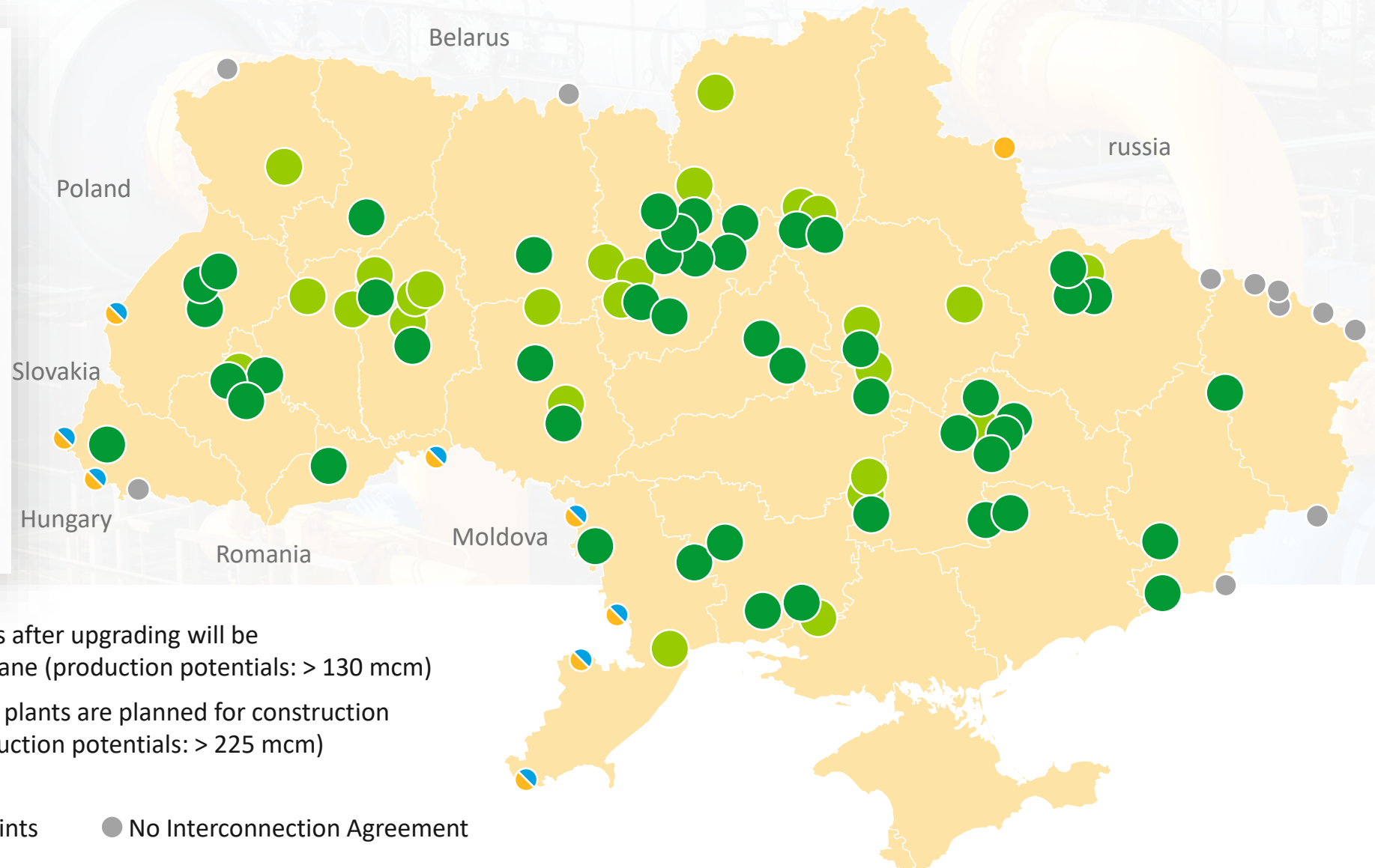
- **access to the GTS** for low-capacity producers
- **reduce costs** associated with constructing necessary infrastructure
- **shorter distance** to a potential connection point
- opportunity for **cooperation between biomethane producers** within the same DSO network



Ukraine develops own biomethane production

In 2023

- The first biomethane plant connected the distribution grid
- The first commercial agreement on biomethane transportation signed

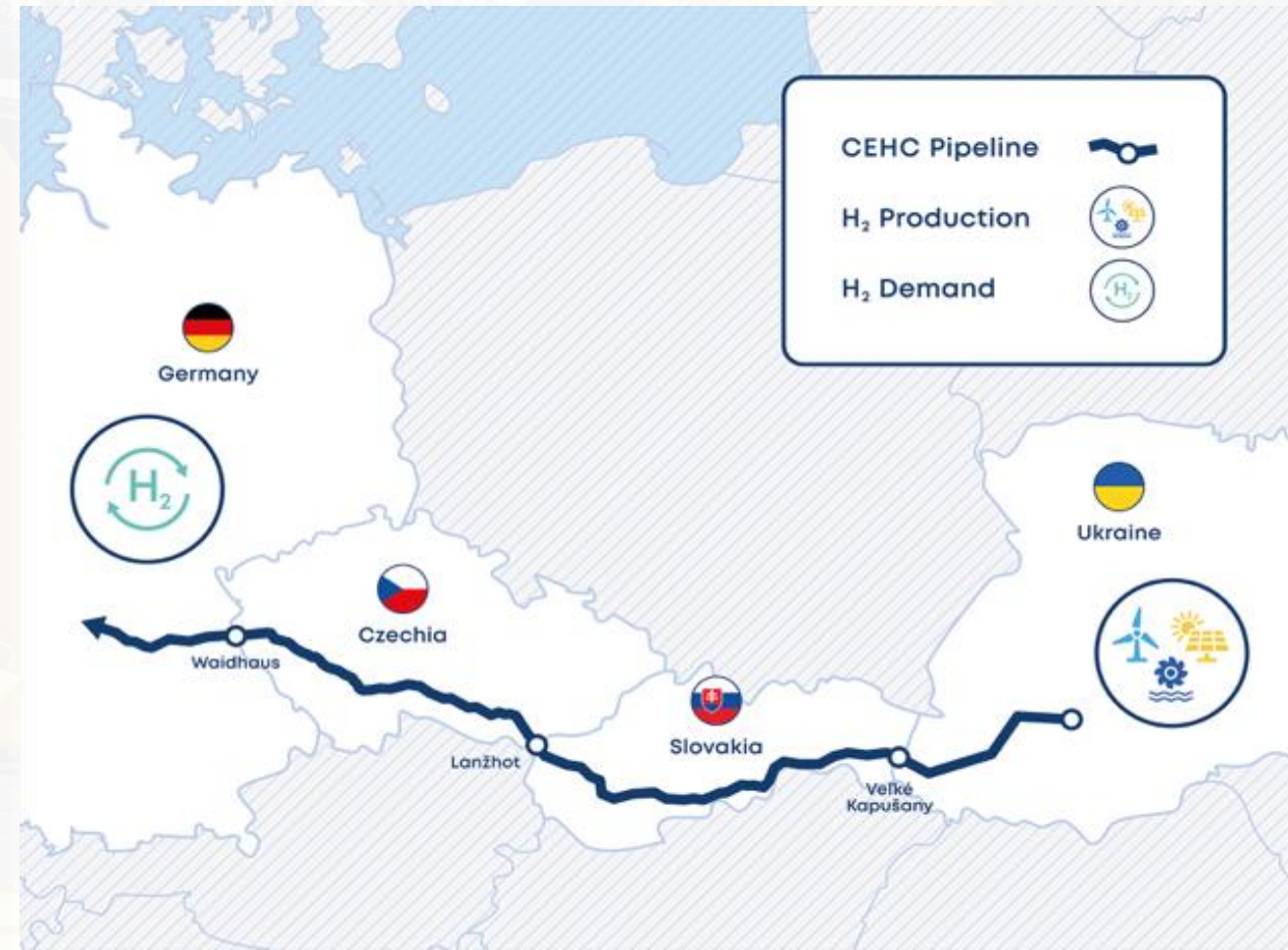


Ukraine explores hydrogen production potential

GTSOU, EUSTREAM, NET4GAS and OGE work together to create the **Central European Hydrogen Corridor — HyCentral (CEH₂C)**

Potential clients for Ukrainian H₂

- US Steel Kosice — metallurgical plant (Slovakia) plans to replace the blast furnace with a DRI system, which can use hydrogen
- Grupa Azoty S.A. — the largest chemical concern in Poland
- Uberty Galati — metallurgical plant (Romania) plans to install DRI units, which can use hydrogen



Thank You!

