

nafta

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NAFTA IN EUROPE



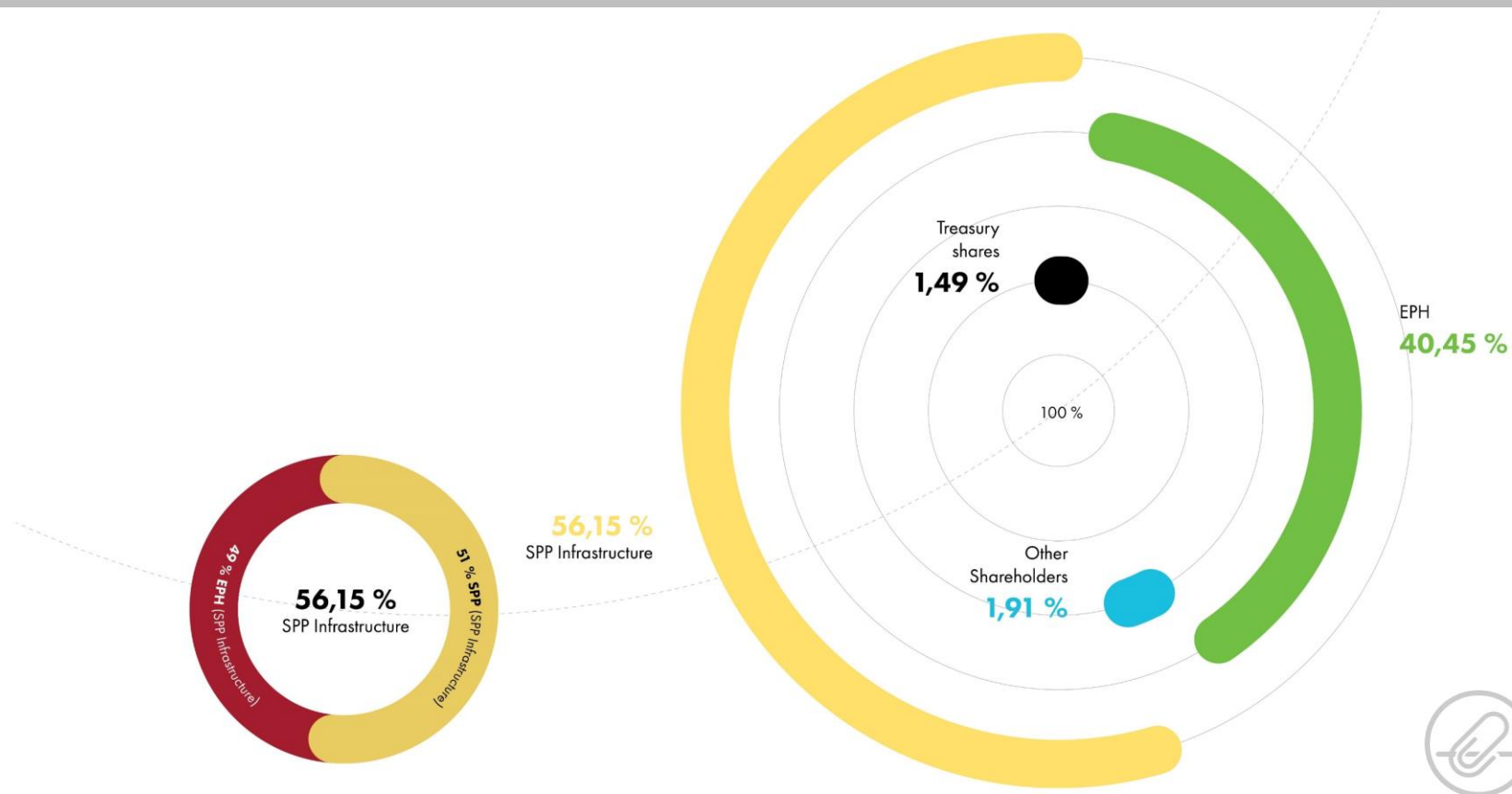
UNDERGROUND
GAS STORAGE

EXPLORATION
& PRODUCTION

DRILLING
& WORKOVER

GREEN ENERGY
INNOVATIONS

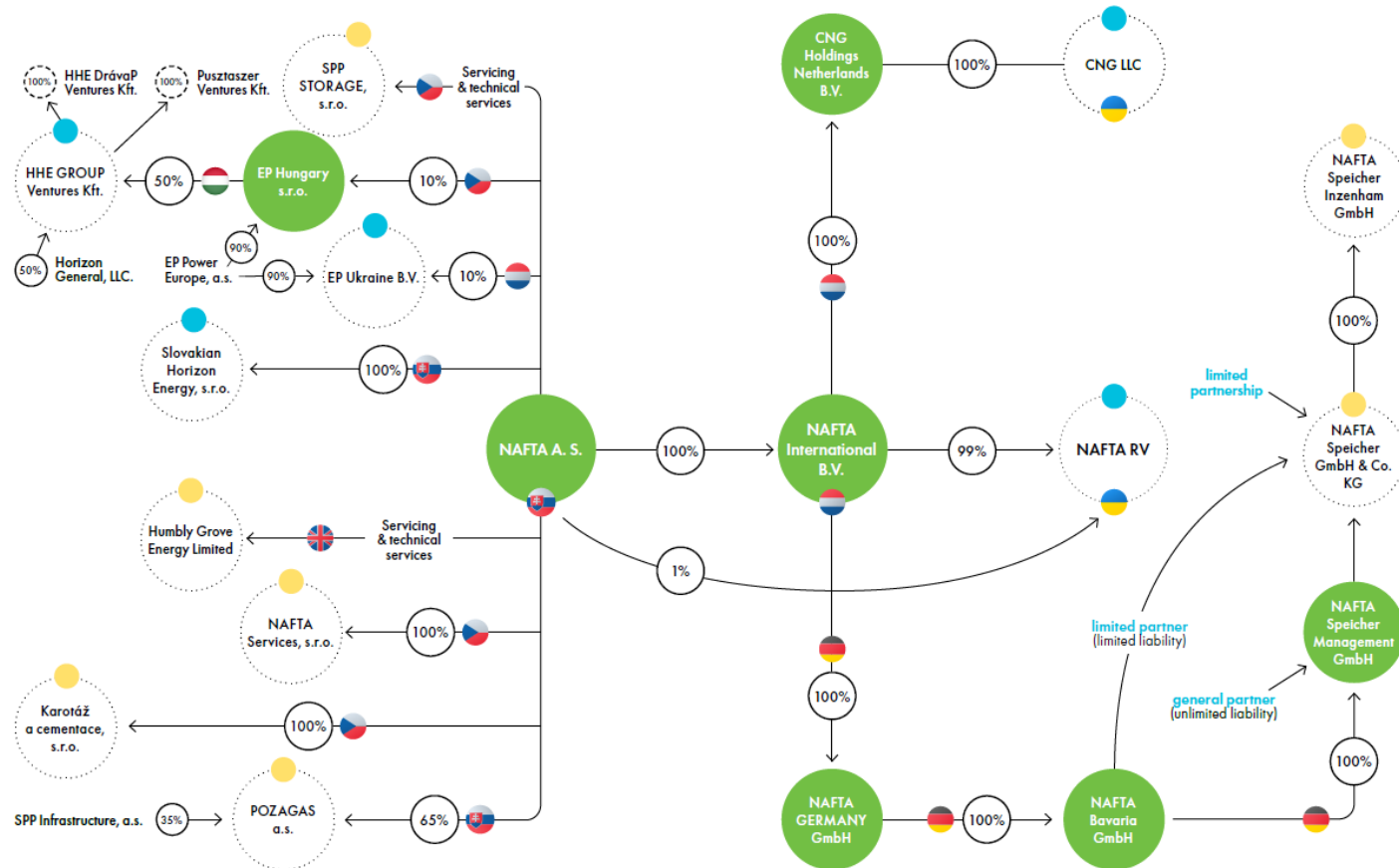
NAFTA / SHAREHOLDER STRUCTURE



NAFTA Group Structure

Based on data that were valid as of March 31, 2023 in the business registers.

● Operating in E&P ● Operating in UGS and related activities





PLAVECKÝ ŠTVRTOK

Operations and Technology Building



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NAFTA / MILESTONES

- **1913** NAFTA drills Gbely 1 - first well drilled for oil in the Vienna Basin
- **1914** Start of oil production
- **1950** Start of industrial gas production
- **1973** Beginning of underground gas storage operations
- **1977** Successful exploration of deep pre-Neogene formations
- **1988** First 3D seismic campaign
- **2006** Underground storage capacity increases to nearly 2 bcm thanks to geological optimization
- **2013** EPH become a shareholder of NAFTA via SPP
- **2014** UGS Gajary-Baden commissioned, working gas volume reaches 2.6 bcm
- **2015** NAFTA partners with RAG in Underground Sun Storage





DRILLING CREW

Photograph from the year 1959



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NAFTA / MILESTONES

- **2016** NAFTA and Cub Energy jointly develop Uzhgorod field in Western Ukraine
- **2016** NAFTA and Vermilion Energy start Trnava E&P project in Western Slovakia
- **2018** NAFTA acquires UGS Breitbrunn/Eggstätt, UGS Inzenham-West and UGS Wolfersberg and in Bavaria
- **2019** NAFTA and Cub Energy started with the first exploration well in Western Ukraine
- **2019** NAFTA wins Vatazhkivska License tender
- **2020** NAFTA acquires another opportunities to E&P in Ukraine in two of the PSAs - Grunivska and Okhtyrka
- **2020** NAFTA started providing technical and advisory services at the Humbly Grove UGS in the United Kingdom
- **2021** NAFTA purchased the 50% of shares in CNG Holdings Netherlands B.V. and become the sole holder of the Uzhhorod license





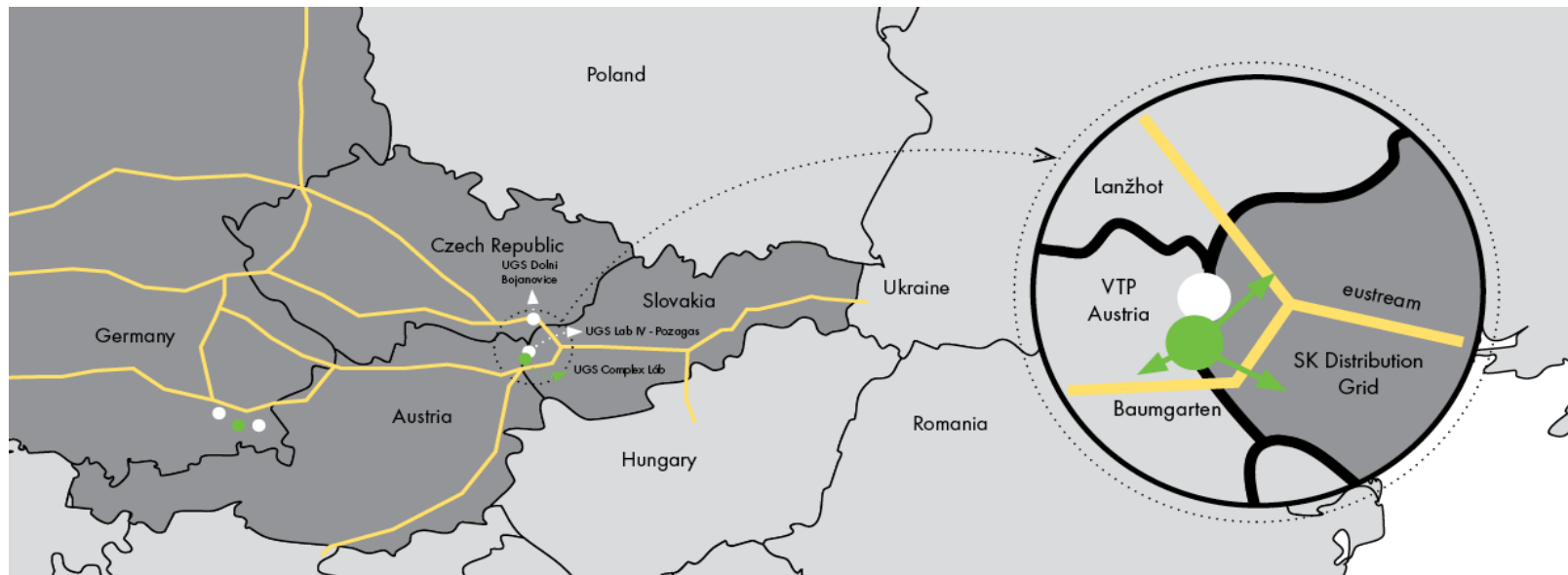
CS GAJARY

Central Station UGS in Gajary



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NAFTA / UGS OPERATIONS IN EUROPE






— Transmission system ● NAFTA - Storage System Operator ○ NAFTA - Technical Operator



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NAFTA / UGS OPERATIONS IN CENTRAL EUROPE

Gas Storage	NAFTA Technical Operator	NAFTA Storage System Operator	NAFTA Technical & Advisory Services	Working Gas Volume (TWh)
UGS Complex Lab 	•	•		30,2
UGS Pozagás 			•	6.9
UGS Dolni Bojanovice 			•	6.9

WGV
44 TWh

Withdrawal Rate
587,2 GWh/d

Injection Rate
485 GWh/d



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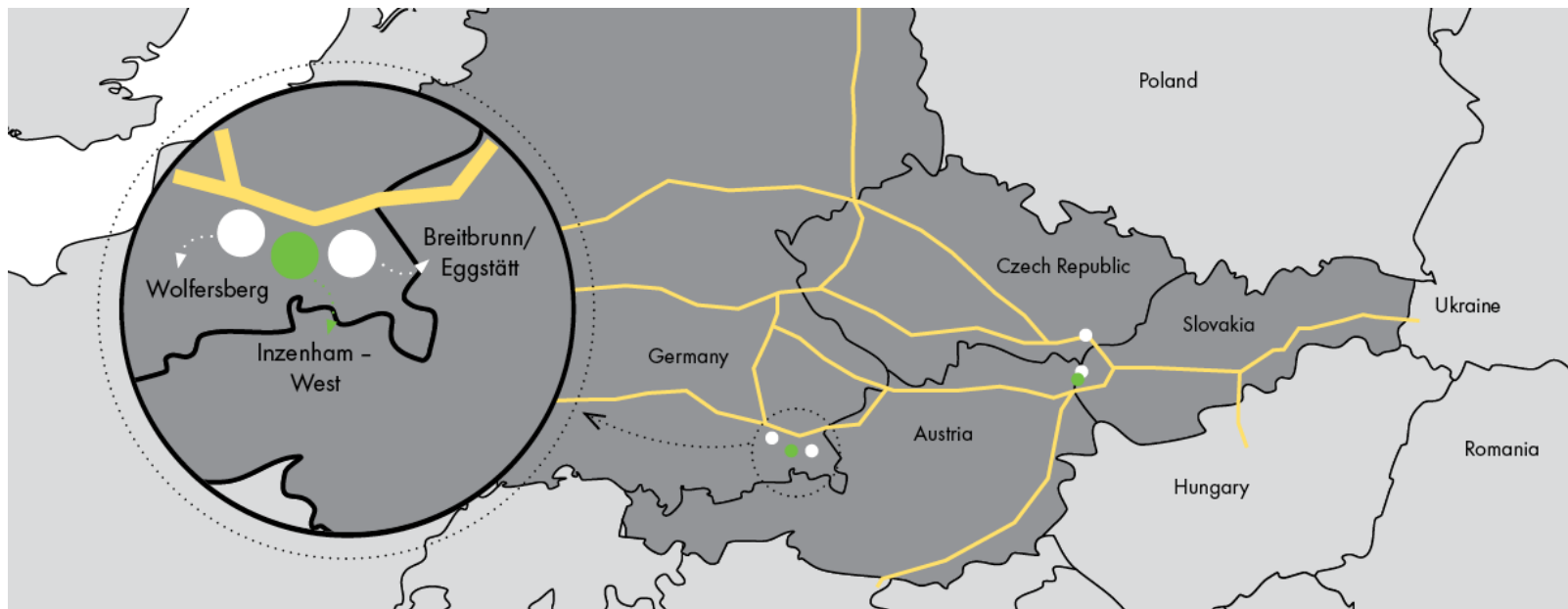
CS GAJARY

Central Station UGS in Gajary



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NAFTA / UGS OPERATIONS IN GERMANY






— Transmission system ● NAFTA - Storage System Operator ○ NAFTA - Technical Operator



NAFTA / UGS OPERATIONS IN GERMANY



Gas Storage	NAFTA Technical Operator	NAFTA Storage System Operator	Working Gas Volume (TWh)
UGS Breitbrunn/Eggstätt 	•	Uniper Energy Storage	11.4
UGS Inzenham-West 	•	NAFTA Speicher Inzenham	4.8
UGS Wolfersberg 	•	Bayernugs	4.1

WGV
20,3 TWh

Withdrawal Rate
275,6 GWh/d

Injection Rate
151,3 GWh/d





UGS INZENHAM-WEST

UGS of NAFTA Speicher in Germany



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UGS WOLFERSBERG

UGS of NAFTA Speicher in Germany



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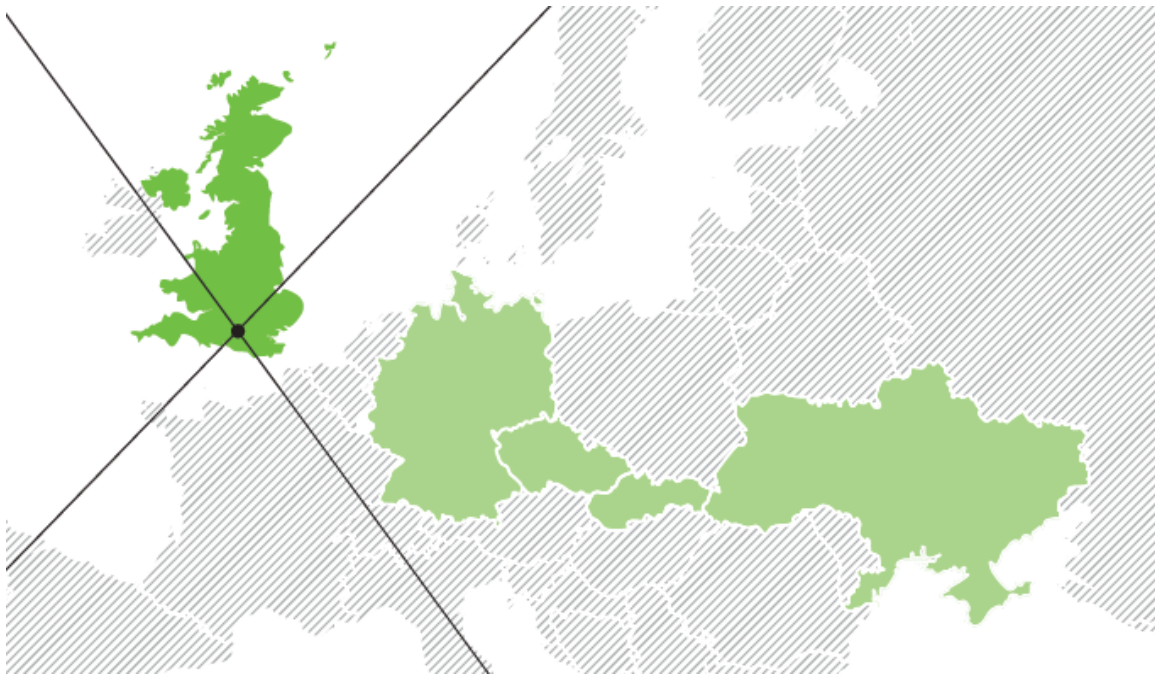
UGS BREITBRUNN/EGGSTÄTT

UGS of NAFTA Speicher in Germany



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NAFTA / TECHNICAL & ADVISORY SERVICES IN UK



WGV
2,815 TWh

Withdrawal Rate
79 GWh/d

Injection Rate
89 GWh/d





UGS HUMBLY GROVE

UGS in United Kingdom



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NAFTA / UGS PRODUCTS & SERVICES

	SEASONAL STORAGE CAPACITY	FLEXIBLE STORAGE CAPACITY
Customization	•	•
Firm or Interruptible	•	•
Flat profile	•	•
Injection & Withdrawal anytime		•
Multicycling		•





CS GAJARY

Central Station UGS in Gajary



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NAFTA / INDIVIDUAL & ADDITIONAL SERVICES

CUSTOMIZATION

- Additional Working Gas Volume
- Extra Injection and Withdrawal rate
- Day-ahead rate
- Within-day rate

ADDITIONAL SERVICES

- Delivery points switching
- Parallel usage of delivery points
- Assignment of capacities
- Transfer of gas in storage



NAFTA / INNOVATIVE PRODUCTS

OPTION ON STORAGE CAPACITY

- Get option on storage capacity for the option premium
- Decide whether you exercise your option at any time up until the option maturity

INVERSE STORAGE

- Get flexible storage capacity with gas already injected
- Ready to trade from day one
- Return full storage at the end

VALUE-SHARING

- Base price equals intrinsic value of storage (summer-winter spread)
- Gain extrinsic value from trading gas with flexible storage capacity
- Extrinsic value is shared between the parties





CS GAJARY

Central Station UGS in Gajary



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NAFTA / INNOVATIVE PRODUCTS

FRAMEWORK AGREEMENT

- One agreement covers all general contractual matters. For each ensuing storage contract a simple term sheet is enough
- Suitable for acquisition of short-term and intra-seasonal capacities



Zoroj: www.dbi-gruppe.de



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NAFTA / EXPLORATION & PRODUCTION (E&P)

WELLS DRILLED
3 200

DEEPEST WELL
6 505 m

DISCOVERIES
57

LICENSE ACREAGE
2 283 km²

3D SEIZMIC
2 000 km²

PRODUCTION/YEAR
55,6 mcm



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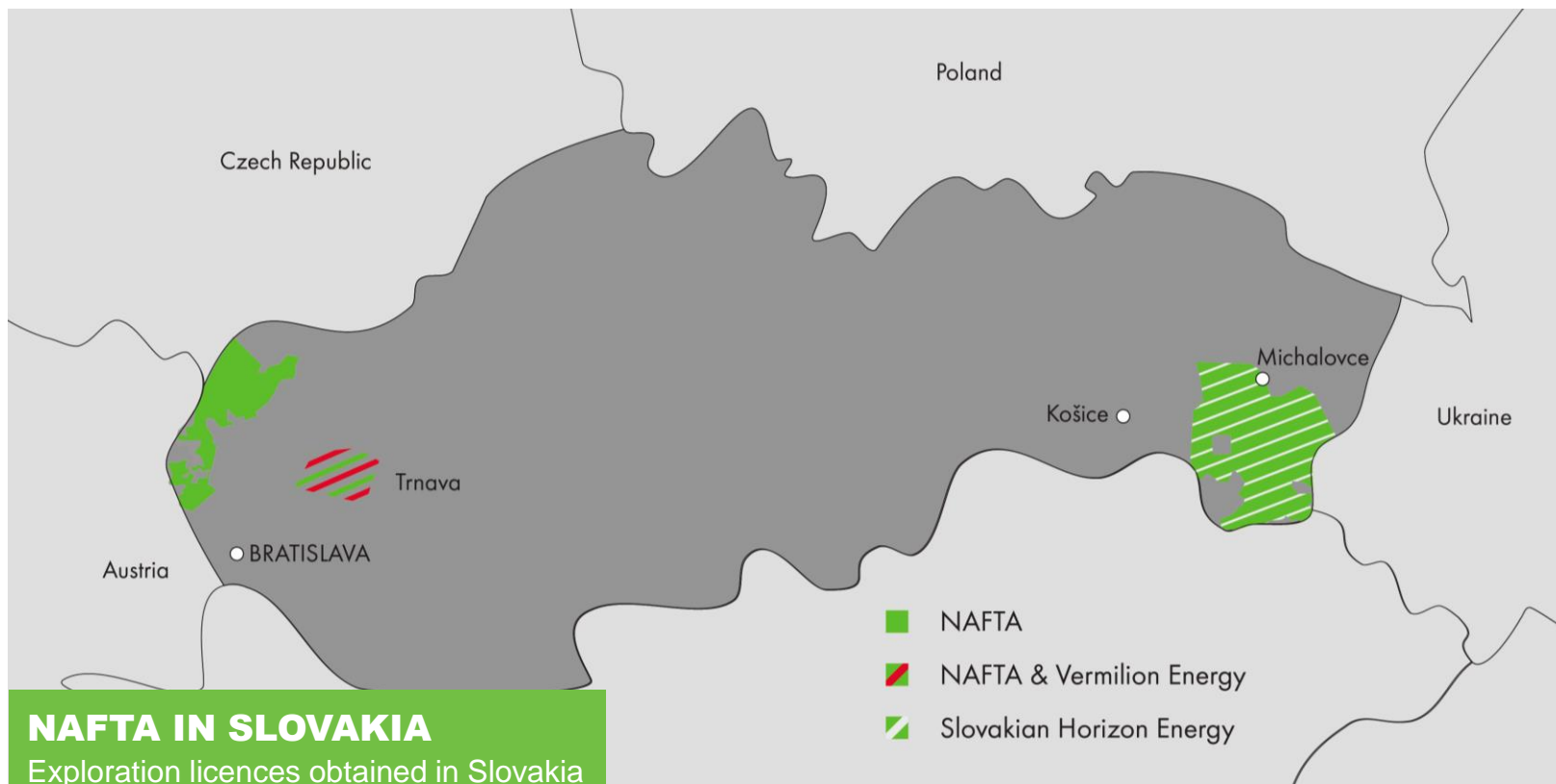
ZÁHORSKÁ VES
GAS GATHERING STATION



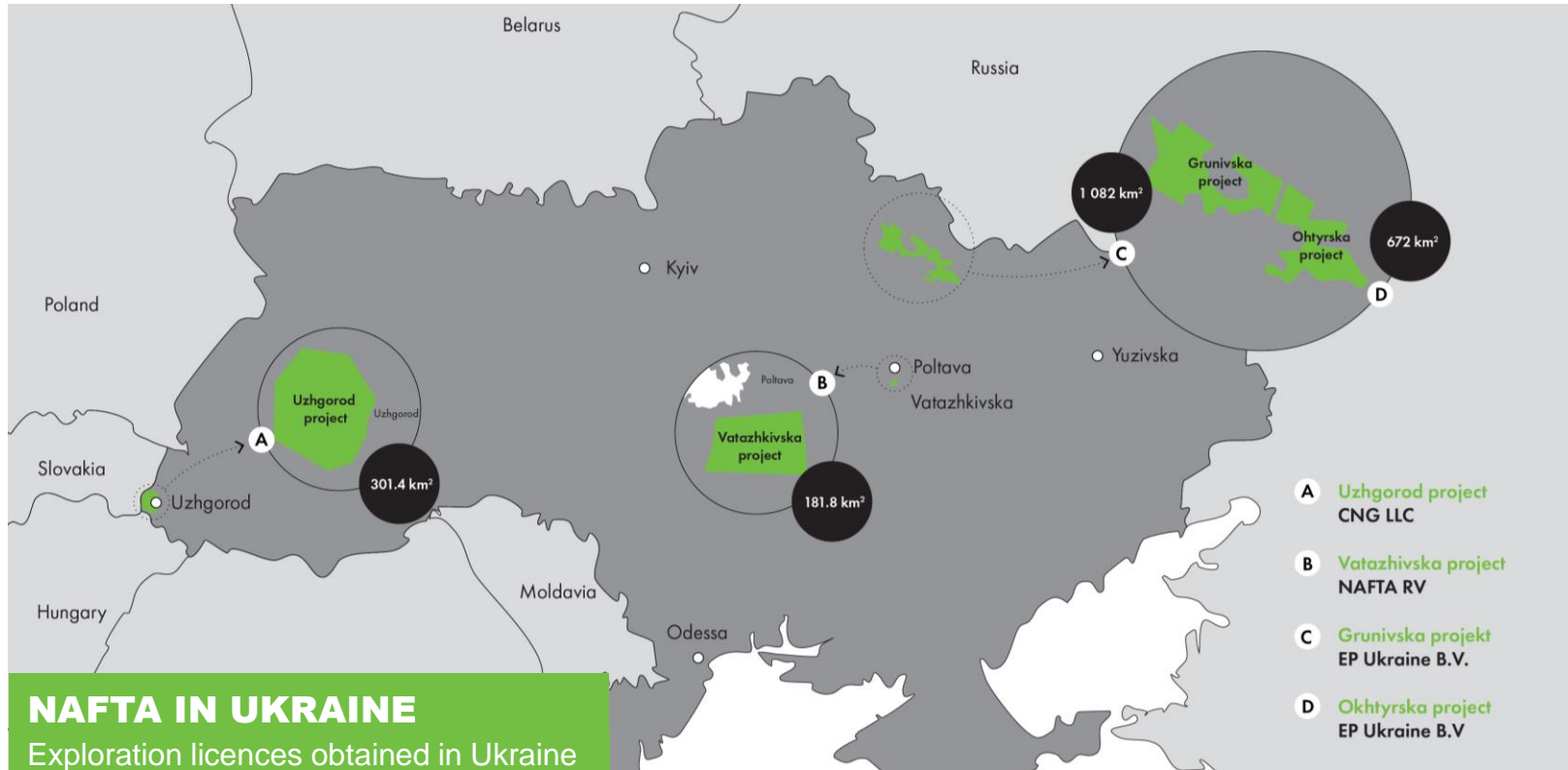
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NAFTA / PRODUCTION IN SLOVAKIA (mcm/y)





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NAFTA / GREEN ENERGY INNOVATIONS

UNDERGROUND SUN STORAGE

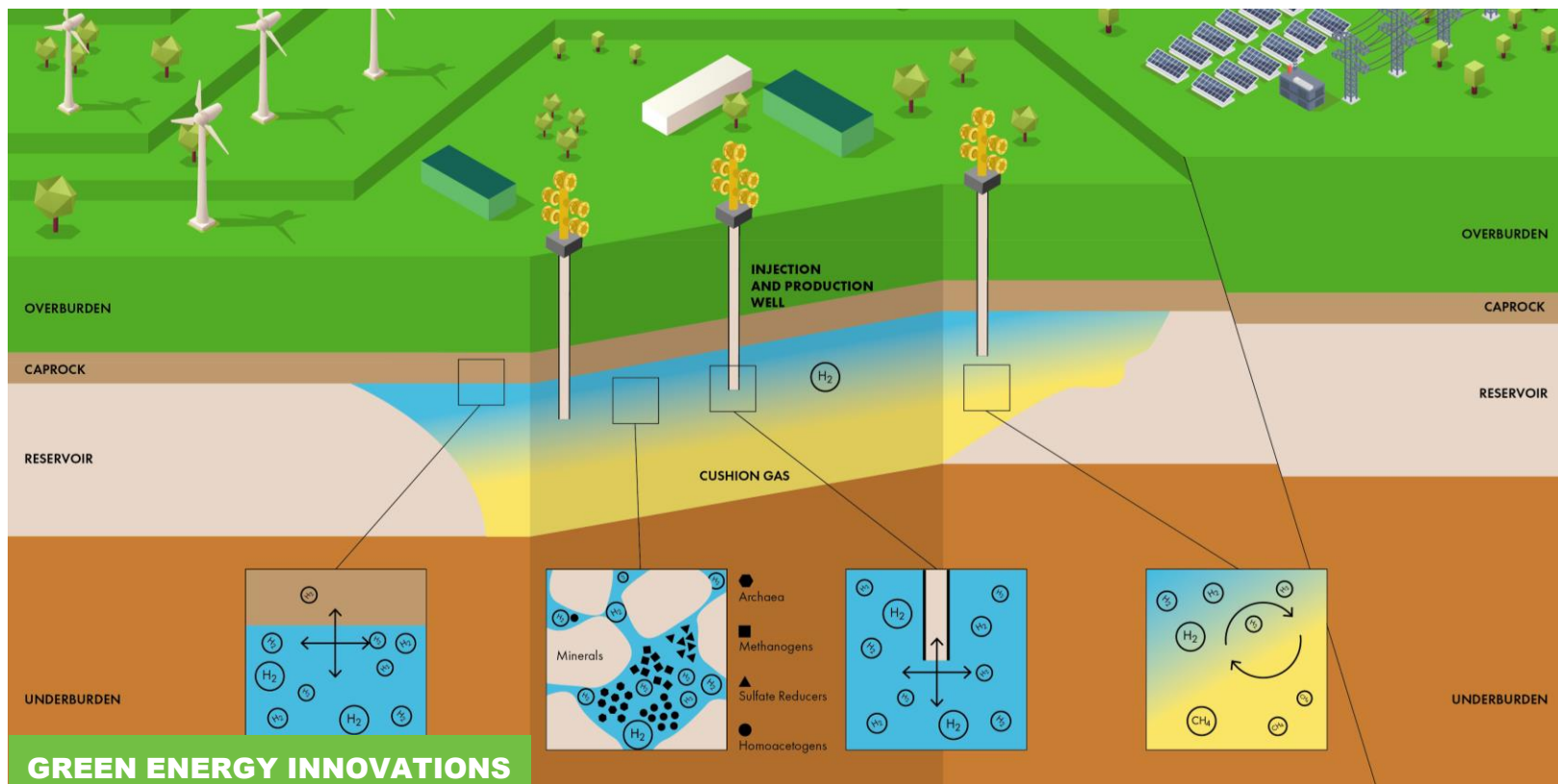
- First important milestone in our Power2Gas projects in 2014
- Partner with RAG (Austria)
- Injecting hydrogen/natural gas mixture into a porous reservoir
- Completed in 2017
- Since then we participated on many innovative projects focused on energy storage and hydrogen



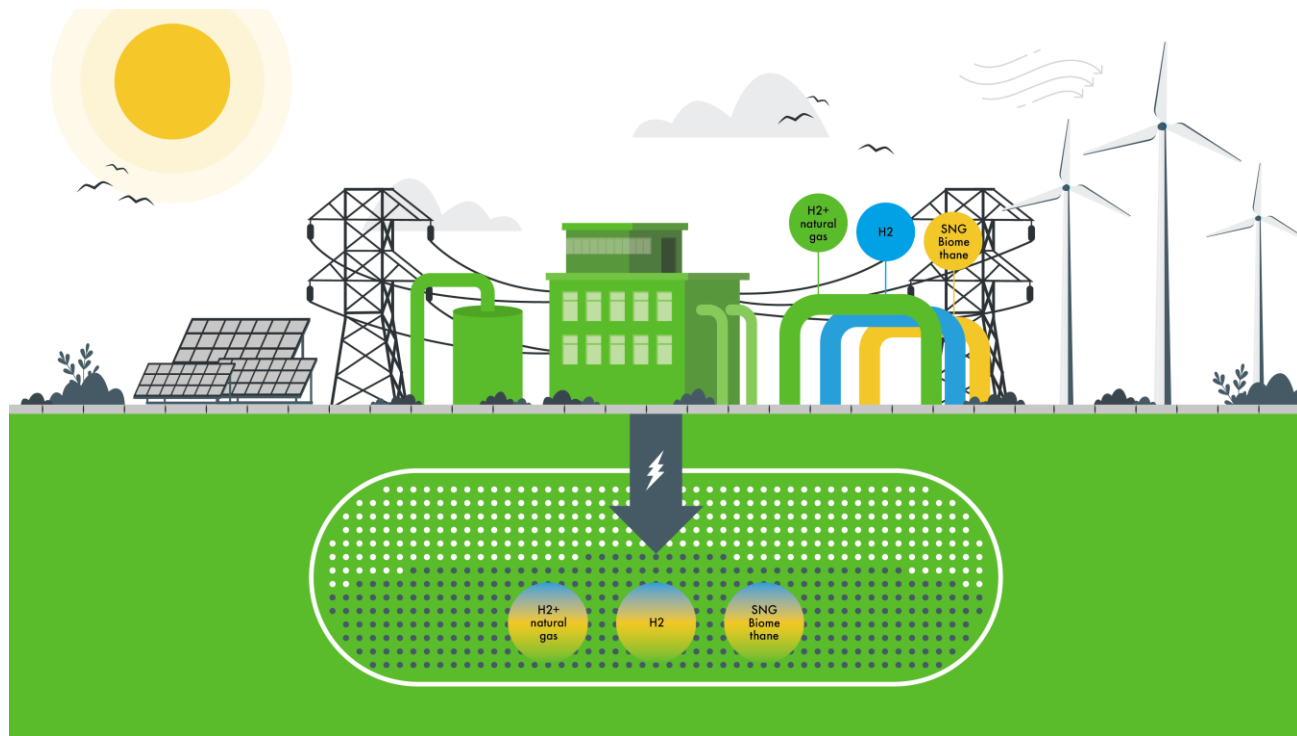
2014



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THE FUTURE OF ENERGY STORAGE



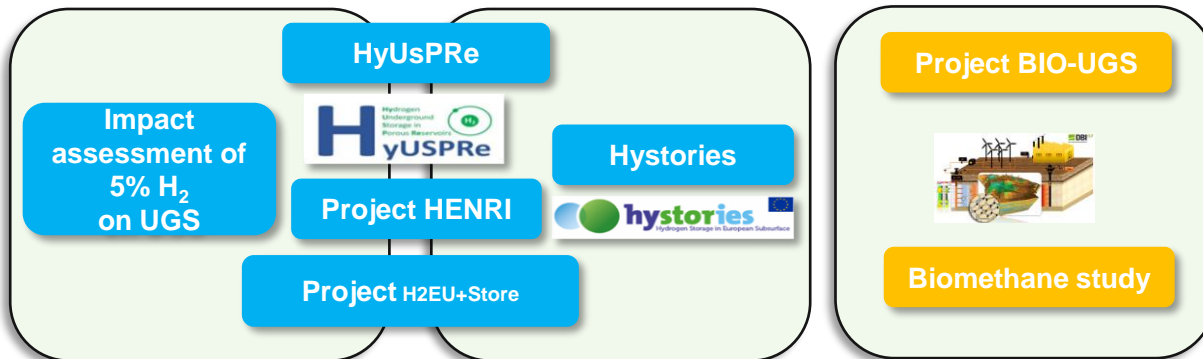
STRATEGIC ORIENTATION OF ENERGY STORAGE IN NAFTA

Direction of development

Mixing H₂
Into natural gas

Pure H₂

Synthetic methane /
biomethane



IMPACT OF H₂ ON EXISTING INFRASTRUCTURE



Impact assessment of storage of 5% H₂ and natural gas

Goal
5% H₂ @ 2025 in
the distribution

Project outputs

- technical part 5% H₂
- technically feasible Investments in chromatographs
- Verification of turbocompressors with the supplier
- Further research & in-site test required

Project outputs – legal & commercial part

Lack of uniform technical & quality standards

Commercial feasibility

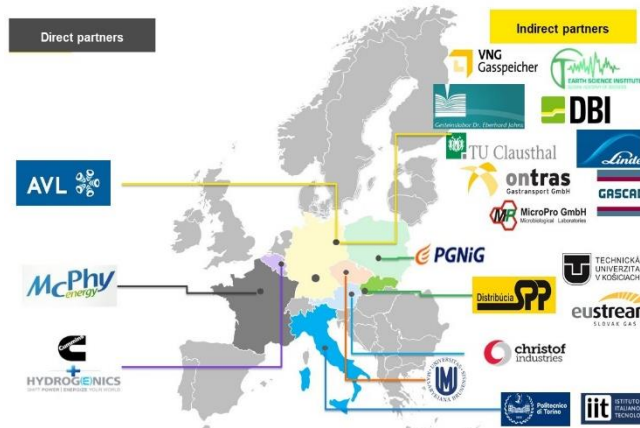
Lack of commercial viability - who will bear the costs?

Most storage
operators do not
have price
regulation

HENRI (IPCEI PROJECT)



- Identification of suitable geological structures for H₂ storage in Slovakia
- Based on the results of the R&D phase, defining the maximum permissible H₂ concentration that can be stored in the given structure
- Pilot test to confirm laboratory results and technical feasibility of storing H₂ in mixture or pure form in geological structure



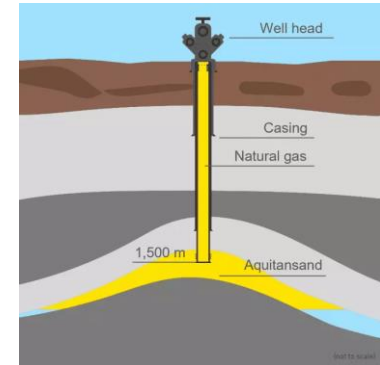
H2EU+STORE



HYSTORAGE



- Testing of hydrogen storage in a mixture with natural gas - 5%, 10% and 25% in the selected structure
- Location - 3 km from the Bierwang reservoir
- UNIPER's NAFTA partner in the project



NAFTA / GREEN ENERGY INNOVATIONS

GAS AND RENEWABLES

- Searching and creating synergies with renewables
- Participation in professional organizations and platforms for knowledge exchange
- Installation of 142 solar panels at facilities in Plavecký Štvrtok and Gajary
- P2G and H₂ projects in Slovakia and Germany





NAFTA / DRILLING AND WORKOVER

Engineering services

- Well and workover design
- Drilling and workover supervision



Drilling and workover services

- Both internally and for external customers
- ISO 9001, ISO 14001 and ISO 45 001 certifications
- Since 2012 workovers done on more than 300 wells
- 2 crews – 1 drilling and 1 workover
- Capable of drilling different types of wells to a depth of 2500 m and performing workovers to a depth of 4000 m

Well types

- Exploration/Production
- UGS Injection/Withdrawal

Workover types

- Re-completion
- Gravel packs
- Casing milling

Fleet

- Drillmec MR 4000 DB
- GVS 3070
- BIR 8005
- DIR 3009



NAFTA / SUPPORT SERVICE UGS



HBZS – SPECIAL RESCUE UNIT

- Unique training facility with "real" gas well
- Possibility of various emergency scenarios simulation
- Training (smoke) room also for confined space rescue training
- Widely used by external (foreign) organisations

NAFTA / CORPORATE SOCIAL RESPONSIBILITY

HSE POLICY

By adhering to basic principles of corporate social responsibility is the company minimizing its impact on environment and communities and contributing toward sustainable development. Improving safety at our facilities is our very high priority

PROCUREMENT POLICY

NAFTA conducts its commercial activities transparently and operates outstandingly, and the same is expected from our suppliers and contractors.

GOVERNANCE AND SOCIAL POLICIES

NAFTA provides reliable services for customers, while acting responsibly towards the community and the environment in which it operates in accordance with applicable European and national legislation.

NAFTA / WE SUPPORT



GREEN REGIONS

- Creating, revitalizing and enhancing green zones and relaxation areas.
- Installation of rubbish bins, separating waste produced in these zones or their ecological lighting.
- Volunteer events to carry out these generally beneficial activities.

NAFTA / WE SUPPORT



INTERACTIVE EDUCATION

- Equipment for schools and classrooms
- Access to computer technology and the internet
- Innovative educational programs
- Exercise and sport activities for children
- Physical activities

www.nafta.sk

