

CEEC

Continental Europe Energy Council

Meeting in Torun, Poland

May 11 – 13, 2023



CANADIAN GLOBAL
ENERGY FORUM

CGEF rep: Adele Williamson

Member Company rep: Roger McMechan,
Horizon Petroleum

150 participants

80 companies

7 technical papers

3 Government presentations

49 Scout reports submitted



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Poland's Geographical Position



★ Torun



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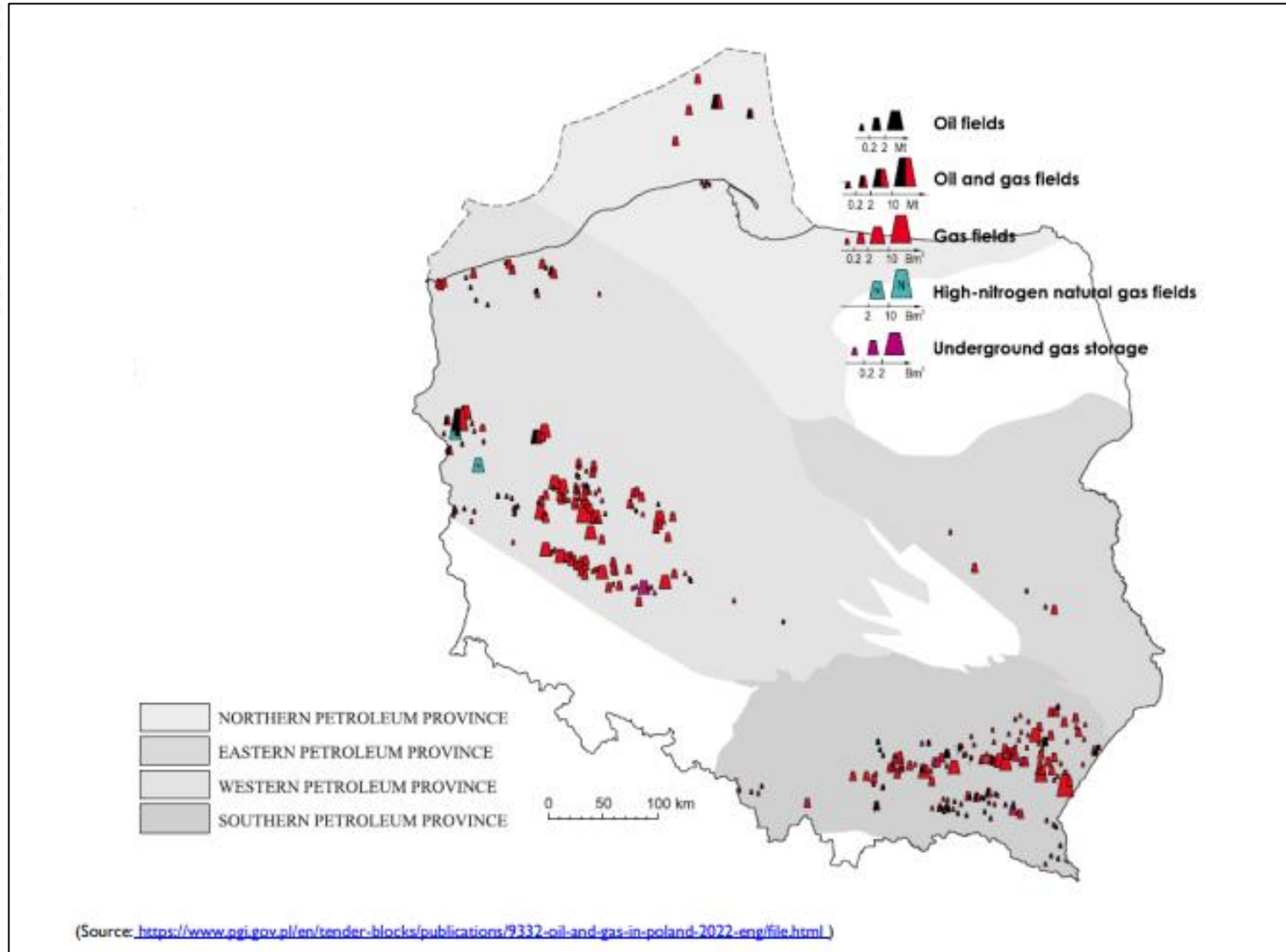
Presentations

- Mature Petroleum Provinces and New Exploration Concepts in Poland
- Unveiling Hidden Worlds- Recent Progress in Seismic Recognition of Deep Subsurface Using Old and New Data
- Structural Architecture, Petroleum Habitat and Potential of the West Carpathian Thrustbelt in NE Slovakia
- The History, Present Status and Future Possibilities of CBM Development in Poland
- An Emerging Large Hydrocarbon and Helium Project in NW Poland
- Developing Polish Gas Resources
- Exploring the Potential for Cost Reduction and Increased Efficiencies in Exploration Through the Use of Technology
- Oil and Gas Projects in Georgia
- Introduction of SARA and Its Hungarian Activity
- General Overview of the Ukrainian Oil and Gas Market



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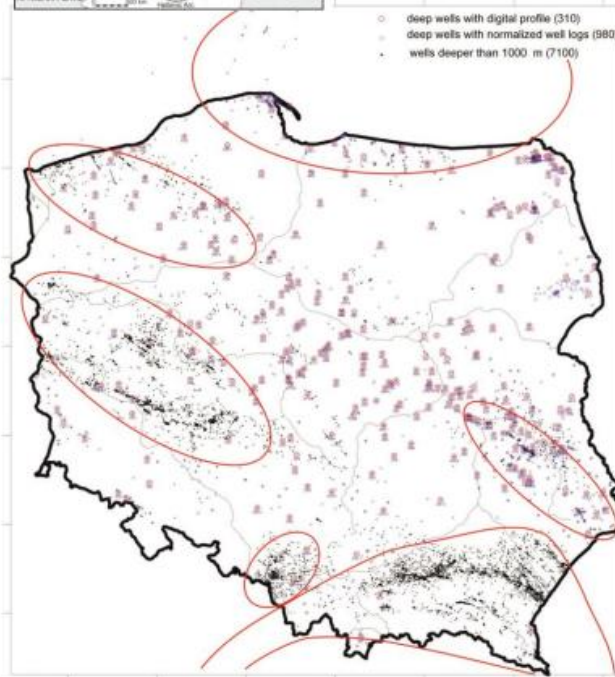
Hydrocarbon Resources in Poland



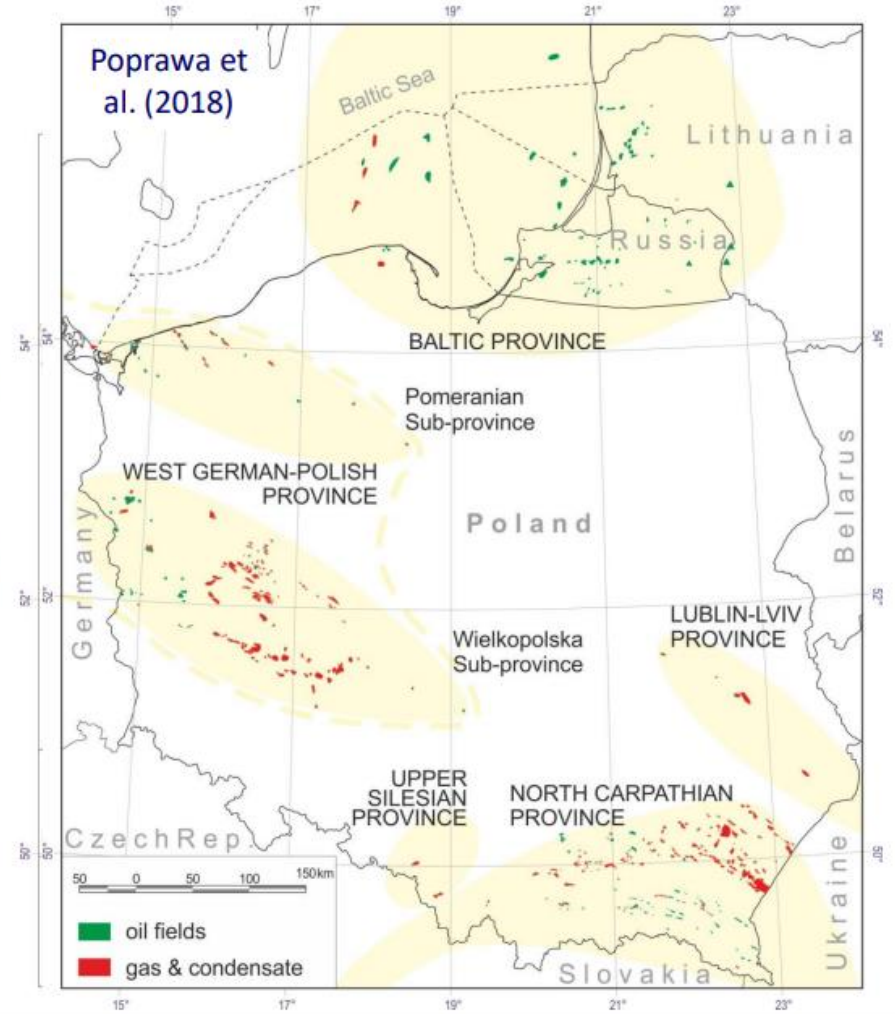
PETROLEUM PROVINCES OF POLAND



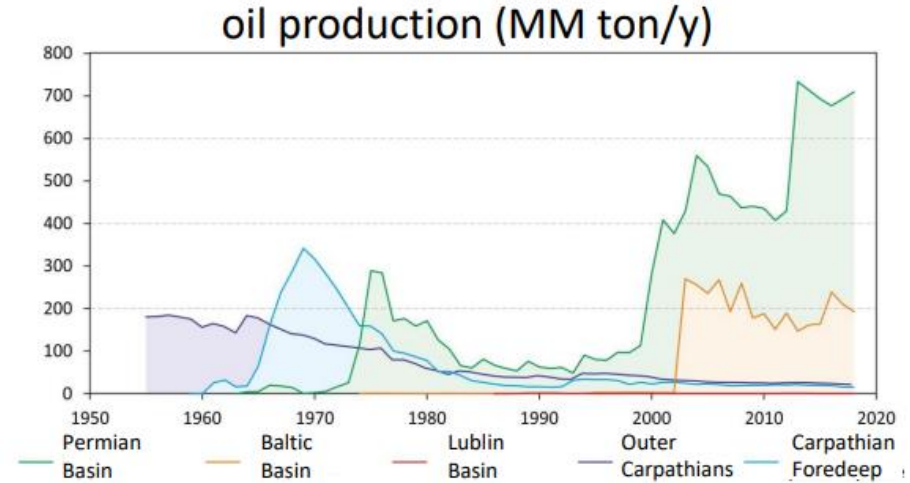
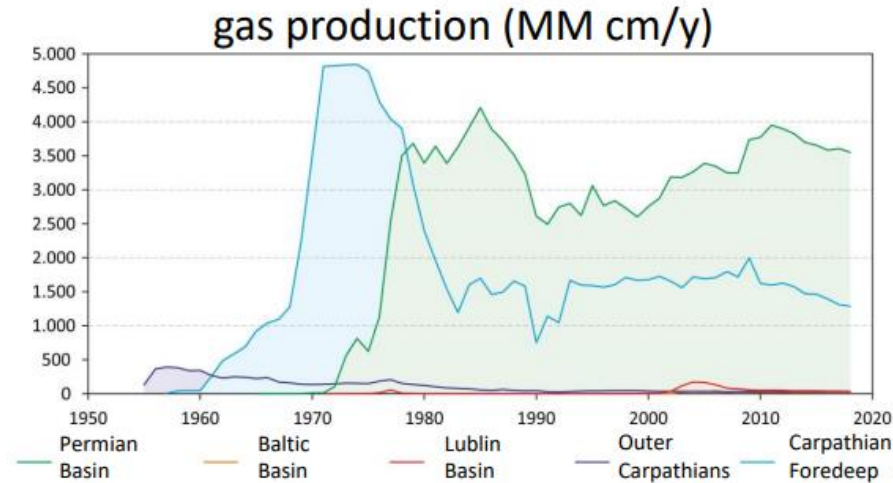
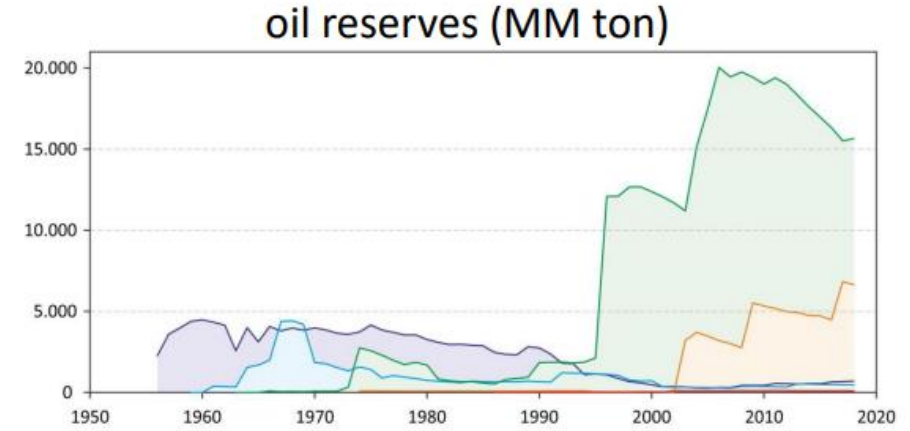
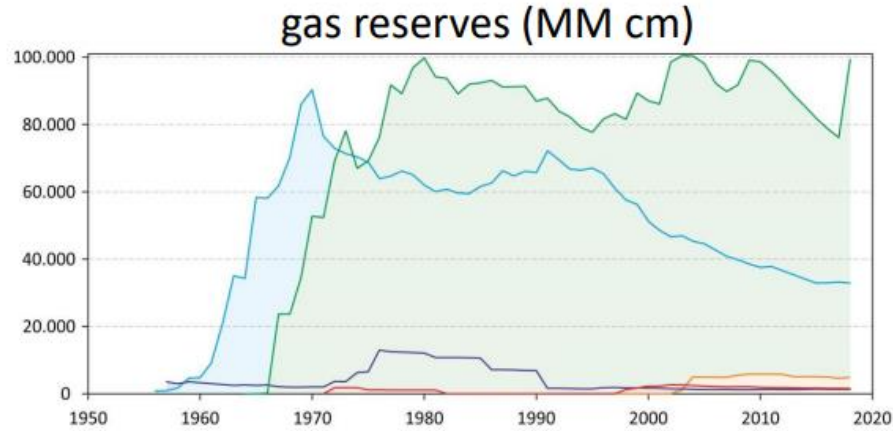
>7,000 E&P deep (>1,000m) wells in the Polish Lowlands;
 >8,000 shallow and deep E&P wells in Carpathians and their foredeep



- Baltic** (oil, condensate)
- Pomerania** (gas, oil)
- Wielkopolska** (gas, oil)
- Lublin-Lviv** (gas, oil)
- Fore-Carpathian** (gas)
- Carpathian** (oil, gas)
- Upper Silesian** (gas)



GAS AND OIL RESERVES AND PRODUCTION BY PROVINCE

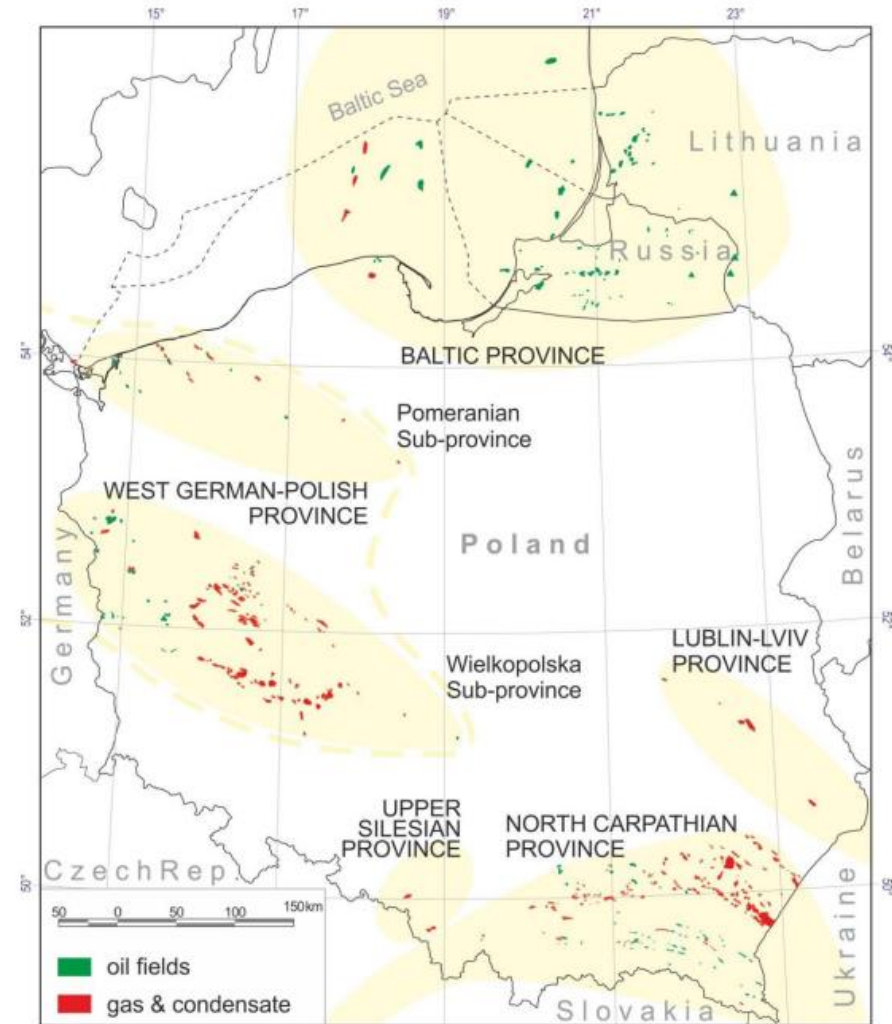




Conclusions

new exploration concepts

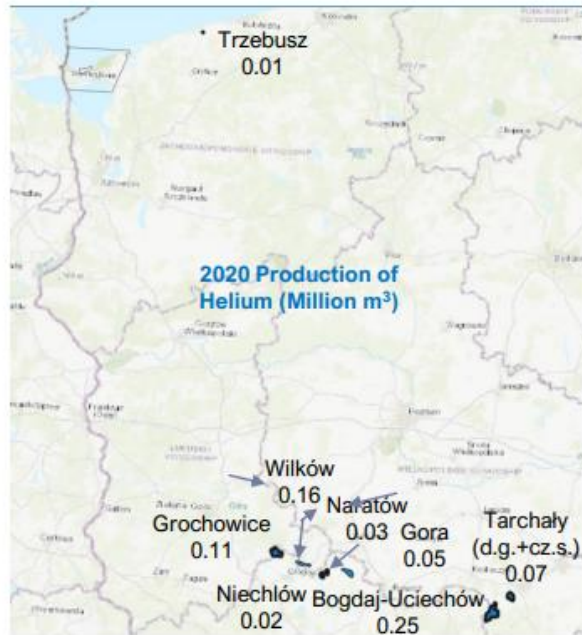
- **Lower Paleozoic Baltic Basin** – conventional offshore and onshore shale oil/gas play
- **Western Pomerania** – Wolin prospect and Variscan extensional grabens
- **Outer Carpathians** – biogenic shale gas play and shale oil play (Menilite shale)
- **Miocene Foredeep** – unique hybrid, sub-conventional biogenic gas play



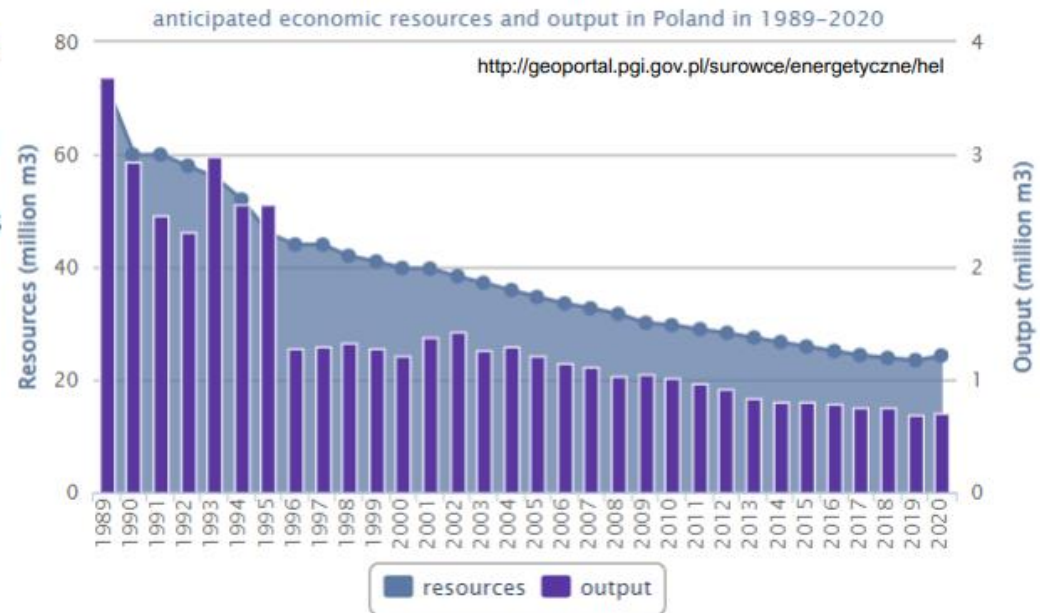
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Helium in Poland

- ▶ Helium occurs in numerous natural gas fields in the Polish Lowland with concentrations varying from 0.02% to 0.45%
- ▶ In 2020, 0.71 million m³ of helium was produced from 10 fields
- ▶ Remaining recoverable resources of the producing fields are estimated to be 24.3 million m³

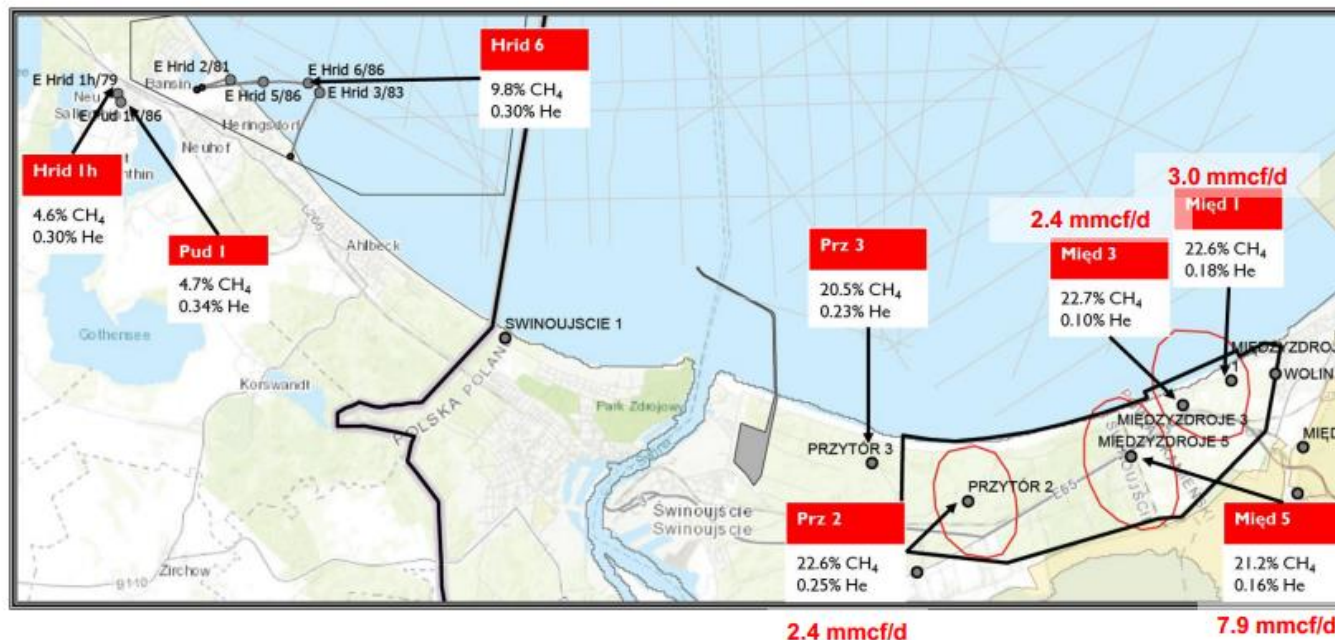


Helium



- ▶ 2020- 2022 Polish export price averaged above US\$500/mcf.
- ▶ October – December 2022 export price to Germany was in excess of US\$ 1000/mcf

Upper Rotliegend Free-Gas Chemistry



Rotliegend Raw Gas Composition	
Component	Mole Fraction (%)
Nitrogen	76.52
Helium	0.21
C1	22.10
C2	1.14
C3	0.03
Total	100

Upper Rotliegend Average from 11 Wells	Porosity ¹ (%)			Permeability (mD)
	Gross Avg.	Net Avg. (5% cutoff)	Net Avg. (10% cutoff)	Gross Avg.
AVG	6.00	7.10	11.70	3.10

¹ Porosity from core analysis

Scout Meeting – Members Only

- CEEC Member Reports
- 49 Reports
 - 2 Nitrogen
 - 2 Geothermal
 - 1 Helium
- CGEF Activity Update
 - Webinars
 - Cuba & Caribbean
 - Pakistan
 - International Conferences
 - Trade Missions
 - Global Reach of Network
 - WPC – September
 - CGEF Conference – Fall 2023



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Joint Venture Opportunities

★ Farm In

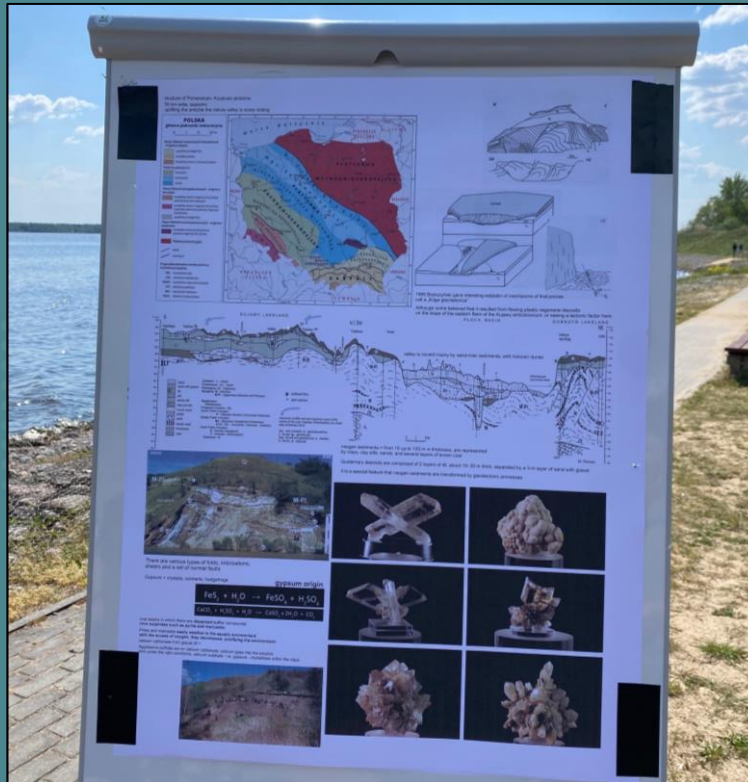
Bid Rounds

- Albania
- Poland



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Field Trip



Vistula Escarpment

GEF

Contacts & Benefits

CEEC is a networking organization

Contacts:

Several key contacts were made with;

- companies interested in Eastern European energy
- individuals
- potential speakers for webinars & conferences
- new CGEF members
- 2 Canadian Trade Commissioners in Warsaw

Opportunities;

- to promote Canadian technology & expertise
- learn about joint ventures
- bid rounds
- local business practices
- up to date technology

For more information: contact rmcmechan@cgef.org



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