

**Mineral & Energy Economy Research Institute,
Polish Academy of Sciences (MEERI PAS)
Division of Renewable Energy Sources
Poland**



IGSMiE
PAN

Beata Kępińska, Leszek Pająk

Iceland
Liechtenstein
Norway grants

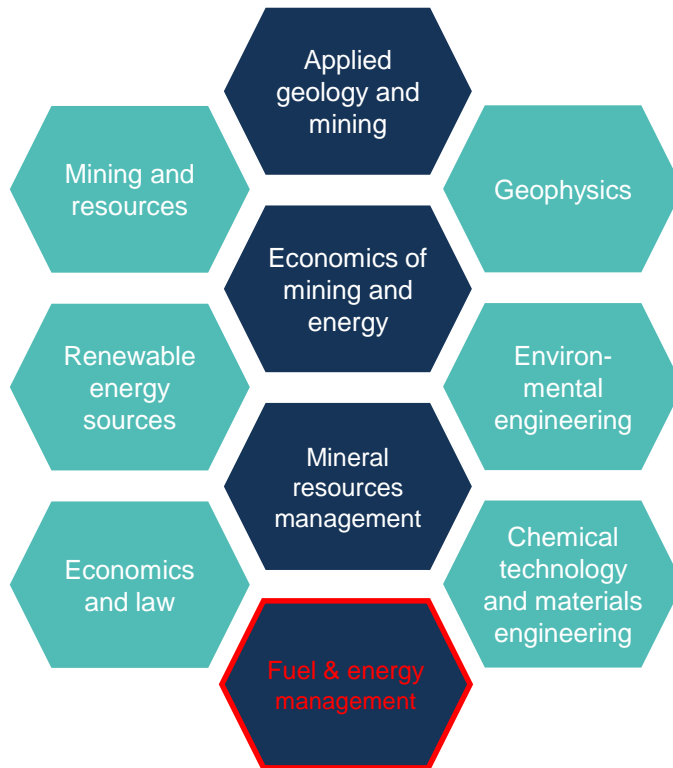
Match Making Geothermal Event
Geothermal Energy Possibilities
Reykjavik, 23 October 2019



The MEERI PAS profile

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FIELDS OF R&D EXPERTISE



SCOPE OF RESEARCH



- Over 100 employees (incl. 50 scientists)
- Over 30 years of activity
- High academic standing ('A' category)
- Cooperation, projects with >150 Polish and foreign entities

MEERI PAS – among leading entities in Poland in geothermal R&D, management, technological aspects, cooperation with ministries, LAs, public, private sectors, NGOs, etc.



MEERI PAS – Kraków and Podhale Region

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Kraków – headquarters today



Kraków – near future:

Centre of Sustainable Mineral
& Energy Resources' Management



Podhale Region:

MEERI PAS cascaded installations:
1st Experimental Geothermal Plant in Poland, 1992/93
(paved the way for geoDH in the Podhale R., other
localities and for various geothermal uses)



MEERI PAS geothermal works and research at a glance

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- First experimental geothermal plant in Poland (Podhale R.), first reconstruction of abandoned well for geothermal water production / heating (Mszczonów)
- Research, modelling, simulation of geothermal systems, R+D on innovative geothermal water use (e.g. applying desalination methods)
- Geothermal feasibility studies, drilling, exploitation, management projects
- "Guidelines on improving reservoir rocks' injectivity in Polish geothermal plants"
- "Atlas on prospects for geothermal CHP binary systems in Poland"
(+ cooperation with AGH-UST on geothermal atlases for various regions)
- First "geothermal" EEA projects for Poland, 2016-2017
(MEERI, AGH-UST, PWr (PL), NEA (IS), CMI (No)) – background for wider cooperation within EEA/NF
- 2019: next EEA bilateral project in preparation "Capacity Building of the Key Stakeholders in the Area of Geothermal Energy" (PDP), MEERI PAS – NEA (2020-2024)
- Other project applications submitted in 2018/19 (EEA/NF regional programs)





Areas of IS – MEERI PAS (PL) potential cooperation

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- Continue cooperation on Investment projects' proposals elaborated in course of the EEA projects 2016–2017 (Poddebice, GeoHeatPol) (applications for funding?)
- Maintain contacts established thanks to 2016 – 2017 EEA projects
- Training activities tailored for specific needs of target groups
- Research, modeling, simulation of geothermal systems (L-T)
- Advanced technologies in drilling, maintenance, use, management of geothermal wells, systems, infrastructure ...
- Assessment and optimisation of geothermal uses (space heating, CHP, other direct uses)
- Energy efficiency, reduction of CO₂ (and others pollutants), LCA
- Next joint projects (EEA, NF, other), networking, exchange of information, expertise, best practices, study visits, joint events, ...

Thank you for your attention

www.meeri.eu



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MEERI PAS – leader of two from three first EEA geothermal projects for Poland:

Results of long efforts of some Polish UNU GTP graduates, Polish Geothermal Society's BoD together with people from NEA, Icelandic ministries, Promote Iceland, ambassadors, some Polish ministerial representatives (Min. of Economy, Chief Geologists, Ministry of Environment (DEF, DG&GC), NFEP&WM, positive approach of donor countries, FMO.

- "Geothermal energy potential in Poland – town Poddebice"
MEERI PAS, AGH, NEA (+ subcontractors), 2016-2017
- "Geothermal energy – a basis for low-emission heating, improving living conditions and sustainable development. Preliminary study for selected areas in Poland", GeoHeatPol – MEERI PAS, AGH-UST, PWr, NEA, CMR (+subcontractors), 2017
- "Geothermal4PI" – Polish Geological Institute and CMR (Norway), 2017

In preparation, 2019:

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