

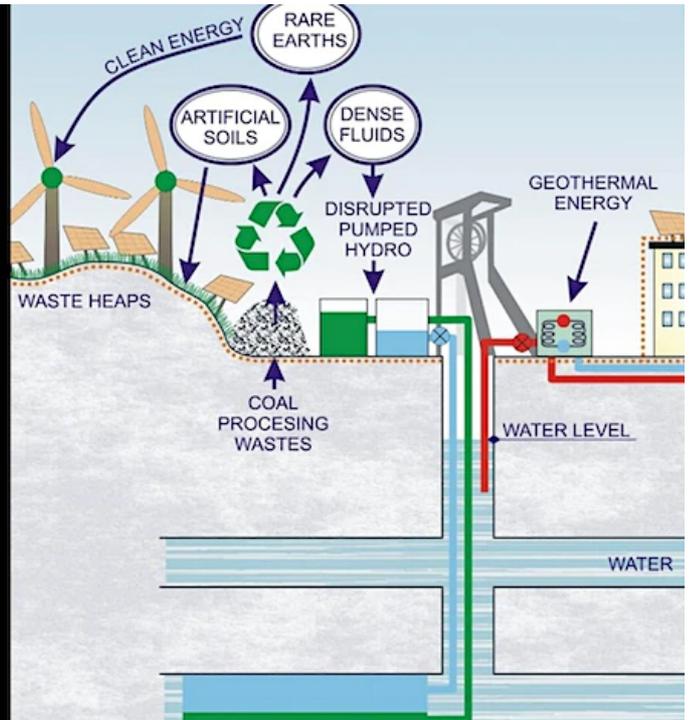
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**GIG**  
Research Institute

**A Green Energy Transition:  
Leveraging Competitive  
Advantages of Coal Mines**

Prof Stanisław Prusek  
Prof Alicja Krzemień  
Central Mining Institute, Poland



Ticket sales end soon



Nov 24

# A Green Energy Transition: Leveraging Competitive Advantages of Coal Mines

This lecture explores the results of three EU projects focused on sustainable business models for the utilisation of former mineworkings.

By [North of England Institute of Mining and Mechanical Engineers](#)

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## Location

Online

## About this event



1 hour



Mobile eTicket

### Lecture Abstract

This lecture presents three projects funded by the Research Fund for Coal and Steel (RFCS) linked to the objectives of the European Green Deal, aiming to achieve in the EU no net emissions of greenhouse gases in 2050 and with economic growth decoupled from resource use.

First, the POTENTIALS project focuses on the repurposing of end-of-life underground coal mines, identifying and assessing the development of new business models relying on renewable energy and contributing to the circular economy.

Second, the GreenJOBS project develops some of these business models by leveraging five competitive advantages of end-of-life underground coal mines: (1) mine water for geothermal and green hydrogen; (2) connections to the grid to inject the electricity produced; (3) large waste heap areas for installing photovoltaic/wind; (4) deep infrastructure suitable for unconventional pumped hydro storage using dense fluids; (5) fine coal waste for recycling into dense fluids, soil substitutes for restoration and rare earths.

Finally, the RECOVERY project presents a novel approach to land rehabilitation of coal mining waste heaps with intensive eroded slopes and highly acidic character, by developing artificial soils using industrial by-products and wastes produced during the extraction and combustion of coal, as well as organic waste materials.

### Speaker: Professor Stanisław Prusek & Prof Alicja Krzemień

Stanisław PRUSEK- Professor and Director of the Central Mining Institute (GIG) in Katowice, Poland.

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Mining Congress, and a member of Mining Committee of Polish Academy of Sciences. He is visiting professor at Henan Polytechnic University and Shandong University in China.

Alicja KRZEMIENÍ - Associate Professor at the Central Mining Institute (GIG) in Katowice, Poland.

Head of the Laboratory of Risk Assessment and Industrial Safety, at the Department of Extraction Technologies, Rockburst and Risk Assessment at GIG. She chairs the EURACOAL's Technical Research Committee and is a member of the European Commission's Advisory Group for Coal (CAG). A lecturer in Risk Management at the University of Oviedo (Spain). Author and co-author of 50 scientific publications, has also participated in 12 European-funded coal-related and post-mining-oriented projects, both as a member team and as a coordinator.

18:00 - Introduction - In person talk and live stream starts

18:05 to 18:50 - Lecture Starts

18:50 to 19:30 - Q & A

19:30 - Event ends and end of live stream

Welcome to our November 2022 lecture as part of our International Mining Lecture Series. 2022 is a year that marks two anniversaries for our Institute. NEIMME was founded in 1852 - making this our 170th anniversary - and is headquartered at Neville Hall which was built in 1872 - making this the 150th anniversary of the building.

For more information on NEIMME membership see: <https://mininginstitute.org.uk/membership/>

For information on IOM3 membership see: <https://www.iom3.org/>



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Organizer of A Green Energy Transition: Leveraging Competitive Advantages of Coal Mines

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The NEIMME holds the status of the Royal Charter

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### Humidur Char: Facing Fire in One Coat

Thu, Dec 15, 6:00 PM

Neville Hall • Newcastle upon Tyne

Free

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### Prince of Wales: Brand New Steam for the 21st Century

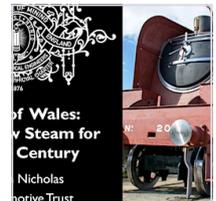
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