

Mine Water Heating and Cooling; A 21st Century Resource for Decarbonisation

9am to Midday (BST) on 10-11th March 2021 (zoom)

Wednesday 10th March 2021

09:00-9:15 Welcome and introduction to the symposium

9:15-10:15 Session 1: Mine water heat and decarbonisation

Low-carbon heat networks: policy and practice

Brett Hagen & Arran Mornin, Department for Business, Energy and Industrial Strategy

Fessing up. Risks and obstacles to mine water geothermal energy

Dave Banks, Holymoor Consultancy Ltd. & University of Glasgow

How hot are Britain's coalfields? mapping temperature across Britain's abandoned coalfields

Gareth Farr, British Geological Survey

10:15-10:30 Short coffee/tea break

10:30-11:30 Session 2: Experiences of UK mine water heating/cooling schemes

From Venture Pit to Walker Shore, coal and heat and fathoms of core': Mine water Heat Exploitation in Newcastle/Gateshead

Jonathan Steven, Groundwater & Geothermal Services Ltd.

Is surface subsidence a risk with mine water heat schemes?

Fiona Todd/Chris McDermott, University of Edinburgh

Sustainable energy in the UK Coalfields

Bohdan Iwanskyj / Charlotte Adams, The Coal Authority

1130:1200 Discussion panel and questions / 12:00 Close

Thursday 11th March 2021

09:00 Welcome to day two of the symposium

9:15-10:15 Session 3: Mine water heat/coolth for local district heating

Thermal mine waters for local authority heat networks

Steven Hayes, Hayes Tec Ltd

The Reutilization of the Dannenbaum Coal Mine; Mine Water for Heating and Cooling of the Redeveloped Commercial Area Mark 51.7 with mine water

Rolf Bracke - Fraunhofer IEG

The Bridgend mine water scheme

Michael Jenkins, Bridgend Council

10:15-10:30 Short coffee/tea break

10:30-11:30 Session 4: The future for mine water heating and cooling

The Reutilization of a Small Coal Mine for Mine thermal Energy Storage

Rolf Bracke - Fraunhofer IEG

UK Coal Mines used in a Smart system

Charlotte Adams, The Coal Authority

Infrastructure and open data for research and innovation in mine water heat and heat storage: the UK Geoenergy Observatory in Glasgow

Alison Monaghan, British Geological Survey

1130:1200 Discussion panel and questions /12:00 Close