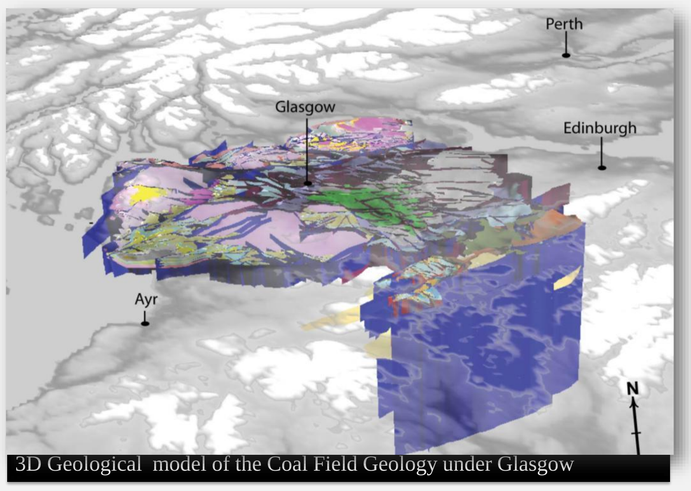
Managing Scotland's Subsurface - Sustainably

Diarmad Campbell (*sdgc@bgs.ac.uk*), Hugh Barron, Tim Kearsey, Sarah Arkley, Eileen Callaghan, Rachael Ellen, Andrew Finlayson, Maarten Krabbendam, Graham Leslie, David Millward, Alison Monaghan, Katie Whitbread

Applied geoscience solutions (2D/3D) for Scotland's environmental and social challenges.

Subsurface planning and management

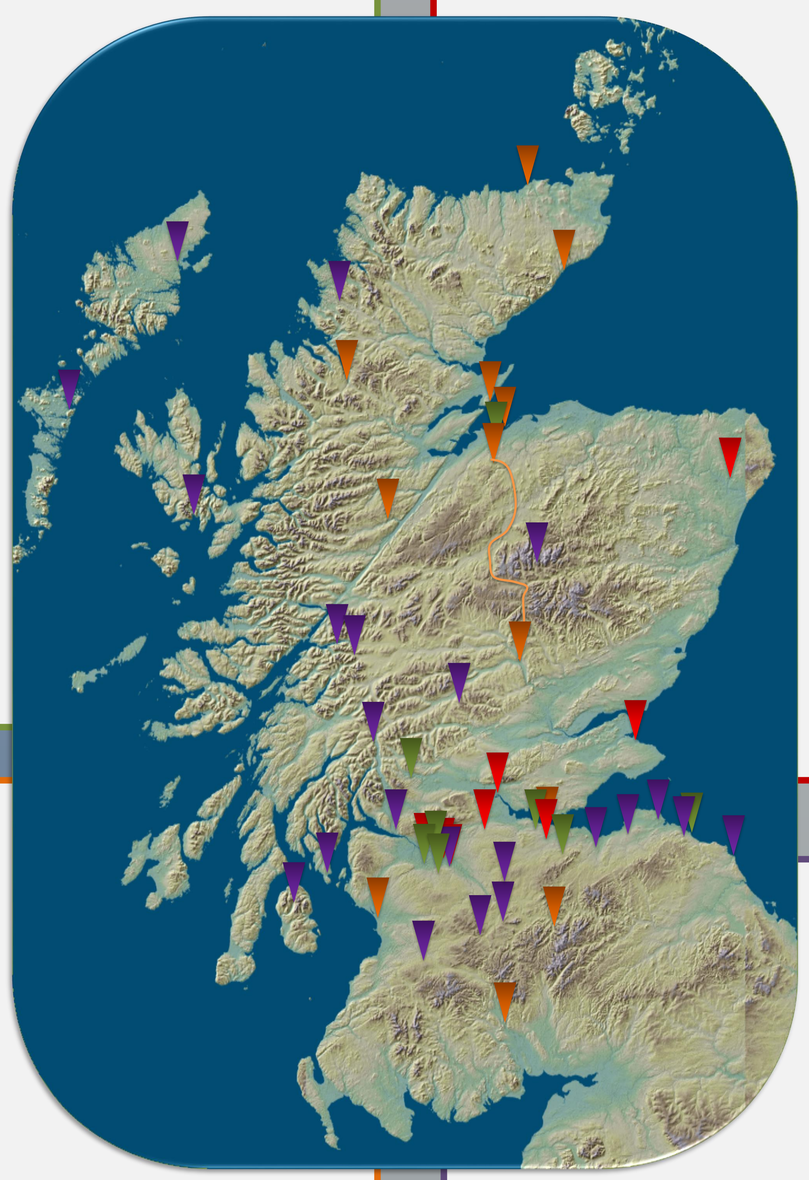
Making geoscience information more accessible, relevant and understandable to users involved in sustainable regeneration and development (Glasgow, Clyde Gateway, Inverness, Scottish boarders etc.)



3D Geological model of the Coal Field Geology under Glasgow


Shallow mining hazards in Glasgow

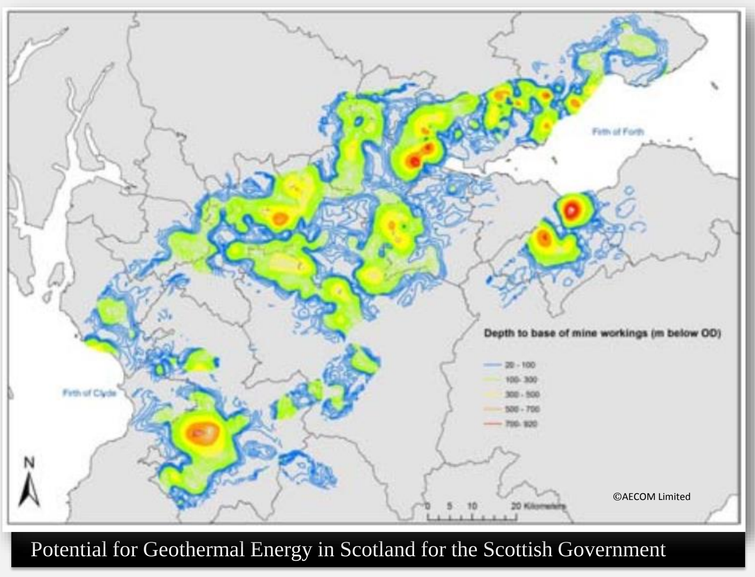
Katies image Land used strategy



Geothermal potential mines and deep sediments

BGS undertook the study into the Potential for Geothermal Energy in Scotland for the Scottish Government and subsequent feasibility studies funded by S.G.


3D Visualisation of Mine workings under Glasgow



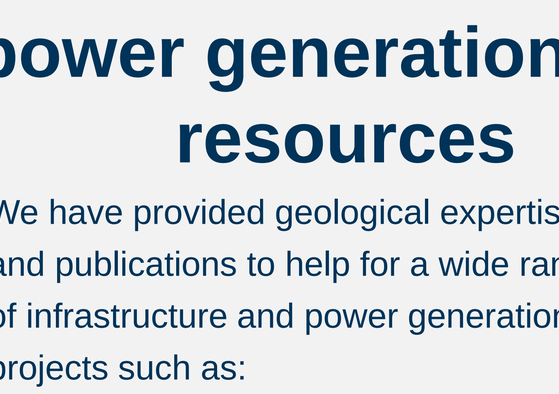
Potential for Geothermal Energy in Scotland for the Scottish Government

Infrastructure and power generation and resources

We have provided geological expertise and publications to help for a wide range of infrastructure and power generation projects such as:

- Dueling of the A9
- Glendoe Hydro electric project
- Coire glas pumped storage scheme
- Landing points for subsea cables
- Carbon capture and storage
- 21st Century Exploration Roadmap

Glendoe Hydro electricity



Glacial Geology around the A9

Understanding landslides around the A880, Working with BGS Marine Geoscience

Research, Geodiversity, and Education

- Conducting research science with Universities and others investigating major events in Scotland's past.
- Working with Scottish National parks and Geoparks to raise awareness of our geological heritage and in promoting geotourism.
- Scotland Geodiversity Charter
- Ground breaking 3D models

BMC Mountain maps in collaboration with Harvey

Assynt 3D PDF available free from www.bgs.ac.uk

Reconstruction of first life on land