



The Geothermal Campus project at the University of Leeds

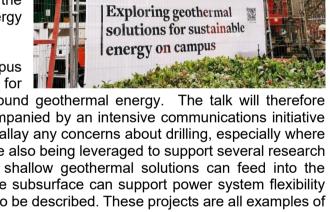
Professor Fleur Loveridge

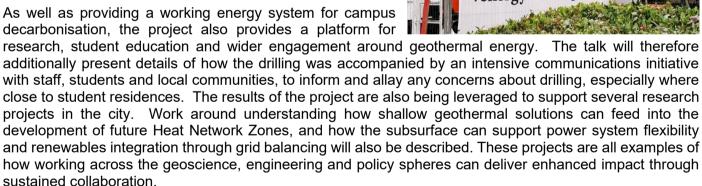
(Geo-Energy Engineering, Civil Engineering Department, University of Leeds). Email: f.a.loveridge@leeds.ac.uk

9th December 2025 | Hybrid Event: Mott Macdonald offices in Birmingham city centre and Zoom | 6:30pm start

Abstract:

During 2024 drilling was carried out at the University of Leeds as part of its Geothermal Campus project, part of wider plans to decarbonise the campus estate by 2030. This presentation will describe the different boreholes constructed to provide open loop wells for an operational ground source heat pump system, as well as monitoring and test boreholes. The holes primarily target the Elland Flags sandstone aguifer, part of the Middle Pennine Coal Measures, but cored pilot wells and one closed loop borehole extend deeper to identify the Rough Rock of the Lower Pennine Coal Measures that may also be a suitable host reservoir. Initial results have proved extremely positive with advantageous groundwater conditions in the aguifer meaning the design of a hybrid GSHP-ASHP energy centre is proceeding.













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About the Speaker:

Fleur Loveridge is a Professor of Geo-Energy Engineering and the Director of Research and Innovation in the School of Civil Engineering at the University of Leeds. She has a background in engineering geology and geotechnical engineering and has over 25 years' experience spanning industry and academia. Fleur leads interdisciplinary research on heating and cooling decarbonisation and infrastructure resilience. She has a special interest in ground energy systems and shallow geothermal energy applications. Her early research pioneered the use of energy geo-



structures (where buried foundations and infrastructure is used for heat exchange). Now as part of the Geo-solutions team in Leeds work also includes underground thermal energy storage, and their connections to heat pump and district heating systems. Fleur is the academic co-lead of the University of Leeds Geothermal Campus. This living lab is part of a major investment in decarbonisation of the University estate, and it provides a test bed for ground-breaking research, while simultaneously offering facilities for enhanced student education. Fleur is a Chartered Civil Engineer and a Chartered Geologist.

Forthcoming Talks:

The WMRG is constantly on the lookout for fascinating talks. If you would like to present, know someone who is willing, or would like to request a subject please contact the WMRG committee (details below) and we will try our very best to accommodate your requests.

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