



## THE CENTRAL SCOTLAND REGIONAL GROUP OF THE GEOLOGICAL SOCIETY

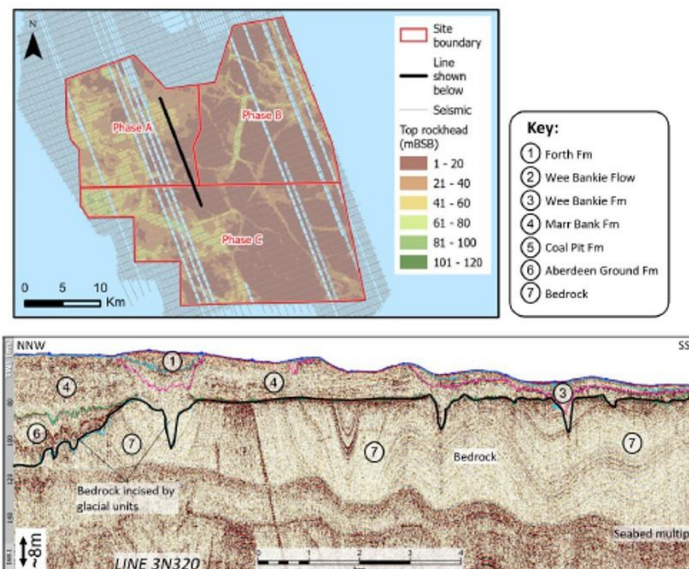
### Berwick Bank Offshore Windfarm: Ground Model & Geotechnical Design

**Speaker: Sarunas Bartkus, SSE Renewables**

**28<sup>th</sup> November 2023, 6:00pm for a 6:10pm start**

**Online only event via link: [Launch Meeting - Zoom](#)**

The Berwick Bank Offshore Windfarm (OWF) in the North Sea, 55 km east of Fife, Scotland, will be one of the largest offshore windfarms in the world once built, with a total capacity of 4.1 GW. Covering 645.8 km<sup>2</sup>, the Berwick Bank windfarm has complex and variable geology.



Since the project's initiation, multiple ground investigation campaigns have been completed to improve understanding of the ground conditions. Different analytical techniques have been used in combination with the ground investigation data to develop a ground model. At different project stages, certain geotechnical design decisions have been made based on the improved understanding of the ground conditions.

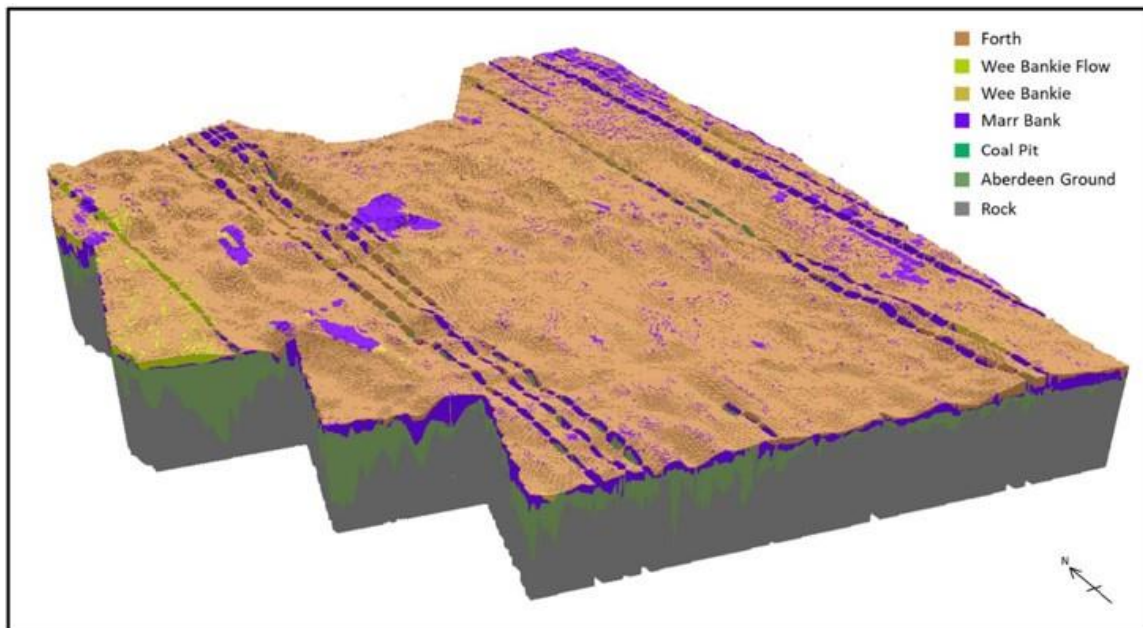
This presentation will discuss the development of the ground model and geotechnical design for the Berwick Bank OWF, focusing on the following:



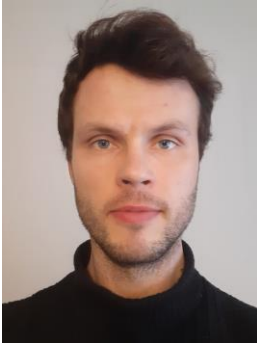
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- Ground investigation campaigns and findings
- Development of the ground model
- Design decisions based on the ground model
- Challenges encountered and how they were overcome
- Techniques used in developing the ground model

The presentation will also highlight the importance of ground modelling and geotechnical design for offshore windfarms.



### Speaker: Sarunas Bartkus



Sarunas Bartkus has been involved in various aspects of geotechnical engineering design during his career. He has experience as a consultant graduate geotechnical engineer at Fairhurst Edinburgh office, working on major infrastructure projects in Scotland and the United Kingdom; and as a consultant maritime civil engineer at UAB Hidrosfera in Lithuania. He has also worked at Saipem Ltd London office, where his main responsibilities were focused on the design of piled foundations for offshore jacket structures supporting wind turbines. Currently, he is working as a Geotechnical Project Engineer at SSE Renewables, where he oversees geotechnical design related works.

More information on the Central Scotland Regional Group can be found on our [webpage](#).