

Technical Luncheon

Society needs Geoscience. Now, more than ever.

Speaker: Ellie MacInnes, CGG

Location: Hyatt Regency, Imperial Ballroom 4/6/8

700 Centre Street SE, Calgary AB

Wednesday, June 19, 2024, | 11:30am – 1:00pm MST

ABSTRACT

As geoscientists, we have a deep understanding of the subsurface and natural systems. The projects that we work on are often complex, multidisciplinary, and integrated, with a requirement for processing and interpreting large datasets. As the Energy Transition gathers pace, the demand for these skills and knowledge in the Critical Minerals (lithium), Carbon Storage, Geothermal, Native Hydrogen and Energy Storage domains will increase significantly. Innovative technological developments in these fields have the potential to dramatically accelerate the path towards our net zero future. In this presentation, I would like to share some aspects of my own professional transition from oil and gas to the green technology sector, with regards to both technical and leadership considerations.

A highlight of this journey has been my recent involvement in CGG's development of innovative new concepts to harvest huge quantities of geothermal energy from active offshore rift systems. These systems have the potential to deliver valuable by-products including freshwater and nutrients. With the production of freshwater, options are created for the development of standalone sites for production of hydrogen, methanol or ammonia, whilst the nutrients can enhance algal productivity, driving increased draw-down of atmospheric CO₂ and expansion of fisheries. Through global cooperation, these resources could be developed at scale and speed, using existing knowledge and technologies from the oil, gas, and geothermal industries, to accelerate our net zero transition.

BIOGRAPHY



Dr. Ellie MacInnes has a wide diversity of experience within the energy industry spanning over 20 years and ranging from technical specialist to business leader within oil and gas and renewables. Ellie's current role is to drive new business development in Green Technology within the CGG Business Incubator.

Ellie was Conference Chair for the EAGE Global Energy Transition Conference in Paris 2023, where she brought together her knowledge of the energy industry and passion for sustainability to explore new concepts and facilitate open dialogue amongst energy leaders. Ellie firmly upholds the belief that while climate change brings significant risks to businesses, it also affords opportunities related to the huge private and public investment required to achieve global net zero targets.

Ellie is a moderator, presenter and panellist on the Energy Transition. Ellie recently completed the University of Cambridge Judge Business school executive education course 'Circular Economy and Sustainability Strategies'. As an active member of the International Women's Forum and Women on Boards, she is passionate about supporting the advancement of female leadership across all sectors and at all levels.