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Overview of the TRIBAL project and current status

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Presenting on behalf of the TRIBAL consortium

The TRIBAL –Tritium Breeding to Advance LIBRTI project is a collaboration between the University of Edinburgh, Commonwealth Fusion Systems, Eni, the University of California Berkeley, and Xcimer Energy. This project was funded via the LIBRTI feeder stream projects in early 2025 and is unique in developing the FLiBe molten salt breeding blanket. As part of this project, the UK's first FLiBe- capable laboratory has been established at the University of Edinburgh, which is carrying out underpinning studies required for a FLiBe neutron irradiation experimental campaign scheduled for Q1 2026. The outcomes of this project will directly feed into informing and de-risking the LIBRTI molten salt mock up breeder experiment scheduled at the UKAEA Culham neutron source in 2030.

This presentation will present a summary of progress in the TRIBAL project, including the engineering and chemistry challenges of these experiments, and the required design, fabrication and testing of systems, materials and instrumentation.

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