



Small/ Advanced Nuclear Reactors

The Welsh Government's Snowdonia Enterprise Zone Board is taking a proactive approach to derisk and facilitate developing land at the Trawsfynydd decommissioning site for the building of a small reactor – whether that is a SMR or an AMR. Trawsfynydd is located next to an inland lake (Llyn Trawsfynydd) in Snowdonia in North West Wales. The site is owned by the Nuclear Decommissioning Authority. The Welsh Government is facilitating work to allow the future development of the site so that a first of a kind small reactor /advanced modular reactor can be built. The reactor is estimated to cost about £2-3B and the ETI has identified that a small reactor can be built by 2030.

Assessments have been carried out to identify the suitability of the site for nuclear new build against the UK Government's original 2008 strategic siting assessment criteria. Work has also been done indicating that the site's lake has the capacity to directly cool light water reactors up to about 600 MWe and a grid connection of about 1000 MWe. Transport infrastructure matters have also been studied.

The Welsh Government is responsible for economic development in Wales and since April 2019, has had the ability to consent electricity generation projects up to 350MW. There is synergy between a small reactor development at Trawsfynydd with the research and development capability of Bangor University and its Menai Science Park (M-SParc), the Advanced Manufacturing Centre-Cymru located at Deeside and the wider North West Nuclear Arc (including the Urenco facility at Capenhurst, Westinghouse's fuel manufacturing facilities at Springfields and the skills of the wider Sellafield community in Cumbria). It offers opportunity for the Wales supply chain – the Wales Nuclear Forum and the wider supply chain in the NWN area.

For more information please contact nuclear.enquiry@trade.gov.uk

