

# A warm welcome awaits in Wales for new nuclear at Wylfa Newydd



## A warm welcome awaits in North Wales for entities with the capability to build a nuclear power plant at Wylfa Newydd, Anglesey.

Hitachi's withdrawal from developing the Wylfa Newydd nuclear power project has opened the door to other potential new nuclear energy providers. Stakeholders in North Wales know that the time for action is now as they look to the future with an unwaveringly clear eye on the prize of new nuclear power at Wylfa Newydd.

Nuclear is absolutely key to North Wales in the provision of sustainable growth, high-value jobs and as an enabler to the balancing of economies across the UK. Communities in North Wales deserve to access the same opportunities as those parts of the UK which have had the benefit of higher levels of sustained investment.

Brexit requires the UK to speedily secure important trade deals with Europe, the US and the rest of the world. Opportunities for inward investment and international collaborations that cement relationships, deliver mutual benefit, and create more opportunities for global trade including UK exports, will be vital.

### Why Wylfa Newydd?

The Wylfa Newydd site is special and is well placed to be the home of the UK's next new nuclear development. Wylfa Newydd has:

- A very large, coastal site, geologically sound with excellent sea water cooling capacity and grid connectivity
- Supportive local government and Welsh Government
- Locally based, highly qualified and experienced workforce with the attitude and energy to make a great success out of any new nuclear development
- An extensive supply chain coordinated and supported by the Wales Nuclear Forum with strong links to the wider supply chain across the North West Nuclear Arc and the wider UK
- A community that wants and welcomes a new nuclear project and is ready to work hand in hand to push a development forward
- Proximity to Bangor University's Nuclear Futures Institute and the Menai Science Park (M-Sparc) where a low carbon centre of excellence is being developed and a thermal hydraulic development rig is likely to be located.

### Potential options?

Ready to go technologies include:

**Westinghouse's AP1000, Generation III +, reactor.** This has completed the Generic Design Assessment (GDA) process through the Office for Nuclear Regulation (ONR). Four AP1000 reactors are operating in China. A further two reactors are being constructed at the Vogtle Electric Generating Plant in the USA for Southern Nuclear by Bechtel.

**EDF's EPR.** EDF are currently building two at Hinkley Point C. Two EPR reactors are operating in China, with two EPR units under construction in Finland and France. EDF have submitted their DCO for two EPRs at Sizewell C and have ambitions for two EPR units at Moorside. Why not Wylfa?

**UKSMR consortium led by Rolls-Royce** is a potential longer-term opportunity – they have yet to commence the regulatory GDA (Generic Design Assessment) process. They are proposing a fleet of British designed Small Modular Reactors and considering sites in the North of England and Wales.

**Other Small Modular Reactor technologies** such as NuScale or GE's BWR-X-300 have potential but have also not yet commenced the regulatory GDA process.

**UKAEA Spherical Tokamak for Energy Production (STEP)** is an ambitious programme to deliver sustainable fusion energy through the design and build of the world's first compact fusion reactor. The first stage of work is to develop a concept design, as well as identifying a site where the plant will be built.

*By working across public, private and academic spheres and across borders, the North West Nuclear Arc will mobilise expertise and cement collaborations, ensuring whatever the eventual technology deployed at Wylfa, that interested entities are supported and benefits to communities and businesses in North Wales and into North West of England are maximised.*