

NIRAB 2020 - Achieving Net Zero

The role of Nuclear Energy in Decarbonisation

- NIRAB report published in early summer 2020 and proposes implementation of 3 'streams' of nuclear energy

Large scale Light Water Reactors (LWR)

- Currently available and suitable for baseload electricity generation.

Small Modular Reactors (SMR)

- Based on the same proven LWR technology and can offer additional flexibility to meet local energy needs

Advanced Modular Reactors (AMR)

- Typically have a higher temperature output enabling them to efficiently contribute to decarbonisation through heat and hydrogen production, as well as generate electricity at competitive costs

- Government should continue to sponsor a Nuclear Innovation Programme, the content of which should be driven by the need to underpin AMR demonstration
 - Down selection of advanced reactor technology needs to be carried out, and a roadmap to demonstrator published
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