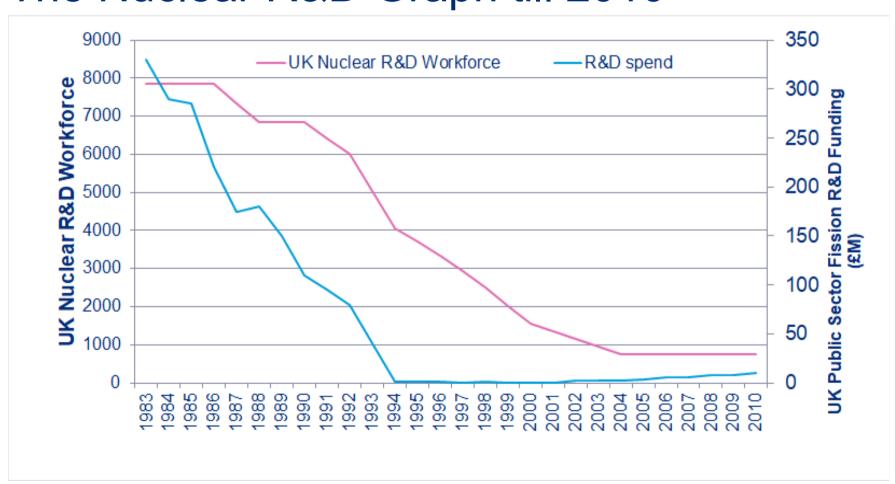


NUCLEAR INNOVATION

BEIS update

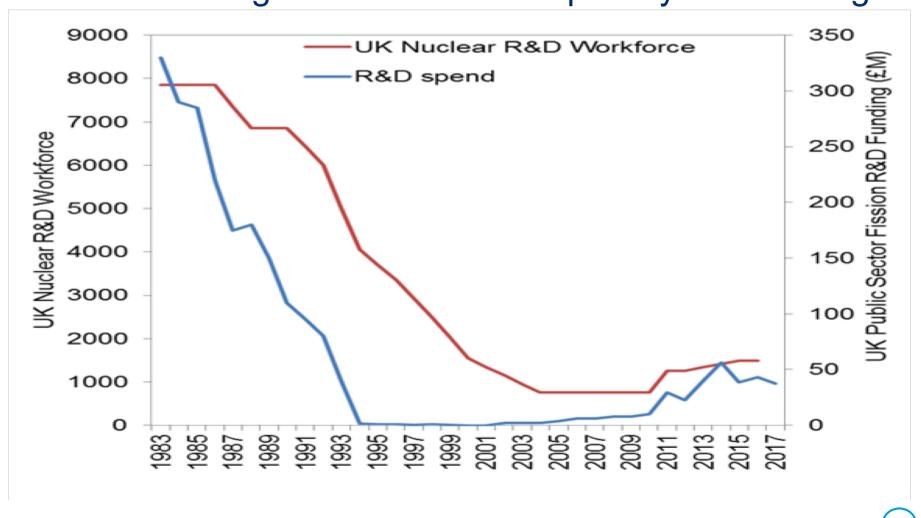


The Nuclear R&D Graph till 2010





Historic funding of nuclear R&D capability and funding





Theme Aims

Capability Secure, maintain and renew the indigenous skills and experience needed to ensure that nuclear can continue to play a part in delivering secure, low-carbon energy to the UK market. Develop the capability, capacity and credibility of the UK supply chain to support both civil and defence programmes and leverage greater commercial exploitation of domestic and global nuclear markets. Costs Seek to reduce the costs of the future nuclear life cycle.



Projects & Programmes

Future Fuels Developing more robust and efficient fuels for current and future reactors. 21st Century Developing capability in advanced manufacturing and modular technology that will reduce the time and cost of future build projects. Manufacturing Developing areas where UK strengths can contribute to reactors of the future. Including: Advanced reactors Modernising regulatory safety methodologies; Developing robust modelling and design methodolgies to support assessment of new nuclear development and deployment; Recycle and Reprocess Ensuring that UK maintains its global lead in technologies that could provide for a more secure and sustainable fuel supply. Strategic Toolkit & Ensuring that we have the tools and capability to underpin future planning on nuclear R&D. Coordination and optimisation of our portfolio of existing and future facilities. **Facilities** Phase 1-£4m to undertake a series of **AMR** feasibility studies for AMR designs



NIP – Phase 3 – To be launched by the end of this year phase 3 will be for contracts up to £100m to progress the key themes.

NIRAB & NIRO – New NIRAB now up and running – second meeting to take place this autumn – sub groups working on questions



House of Lords S&T report. Government response made in the Lords in October 2017.

AMRs Phase 1 now running funding of up to £4m to undertake a series of feasibility studies for AMR designs. Phase 2, subject to further HMG approval, up to £40m may be available for successful selected designs from phase 1 to undertake applied R&D.