

Fuel Cycle	Developing the skills, experience and IP in fuels for both near and long term reactor technologies, alongside developing suitable spent fuel and waste management routes.	
Design & Regulate	Focusing on the tools, infrastructure and regulatory understanding required to build UK design capability.	
Build	Changing the way we build nuclear, through innovation in materials, manufacture and autonomous systems.	
Advanced Modular Reactors	nging it all together and increasing the ways nuclear can contribute to net zero.	
Facilities & Toolkits	Strategic assessment capability together with the management of UK access to domestic and international facilities.	

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Behind the Themes.

Fuel Cycle	Build	Design and Regulate	Other
Accident Tolerant Fuels	Modular methodologies.	Virtual Engineering	Public Reference tools
Coated Particle Fuels	Codes and Standards	Thermal Hydraulics Models	Fast Reactor Knowledge Capture
Advanced Aqueous Reprocessing	HIP of Reactor Components	TH facility design	Integrated Nuclear Decommissioning (IIND)
Pyro Processing	Nano-structured steels.	Safety and Security toolkits	Regulatory capability and engagement.
Reactor Physics	Electron Beam Welding		
Fast Reactor Fuels and Recycle.	Autonomous welding systems		

Going Global

Involvement with over 54 organisations across 16 countries, Fostering cooperation and increasing trade potential.



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Going Global

US – UK Action Plan

Gen IV forum

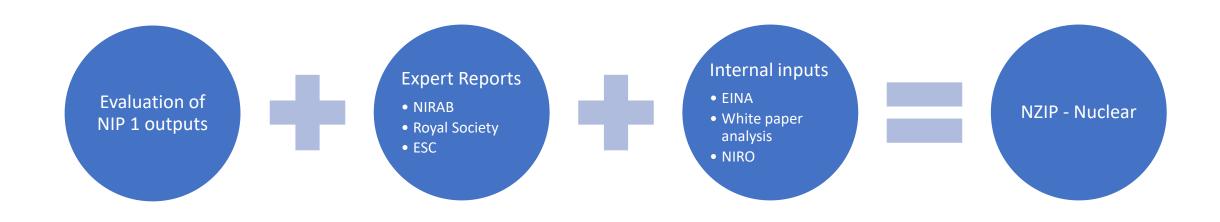
Bilateral thematic research collaboration, led by BEIS, DOE and national labs.

- SMRs / AMRs
- Accident tolerant and non-LWR fuels.
- Fuel cycle scenario analysis
- Modelling and simulation.
- Nuclear data campaigns.
- Scope for materials archive collaboration.

Involvement in VHTR and SFR system development

• UK reps assigned for these groups from industry & academia.

What next.....2021 and beyond



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