

Technical Breakouts

Paul Nevitt, Science and Technology Director





A world-leading programme



Advanced fuel cycle innovation to enable a clean energy future





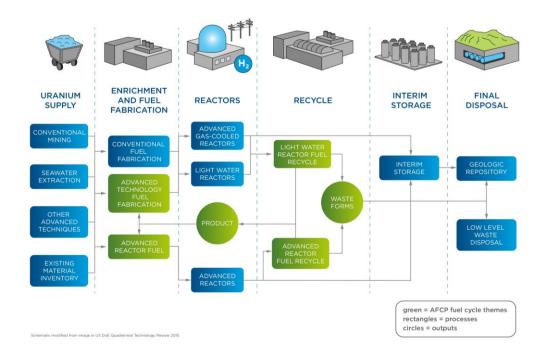






The programme







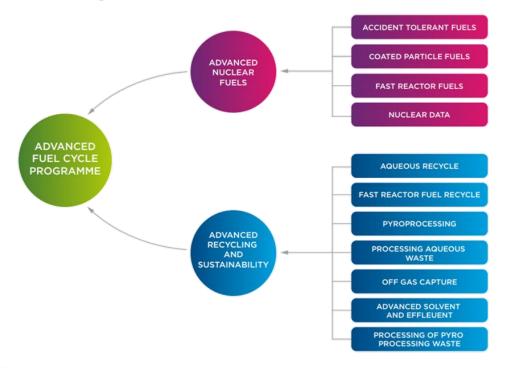
AFCP is part of the Department for Business, Energy and Industrial Strategy's (BEIS) £505m Energy Innovation Programme.





The programme



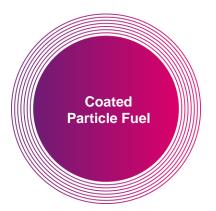




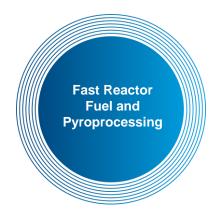


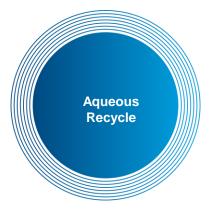
Breakout sessions



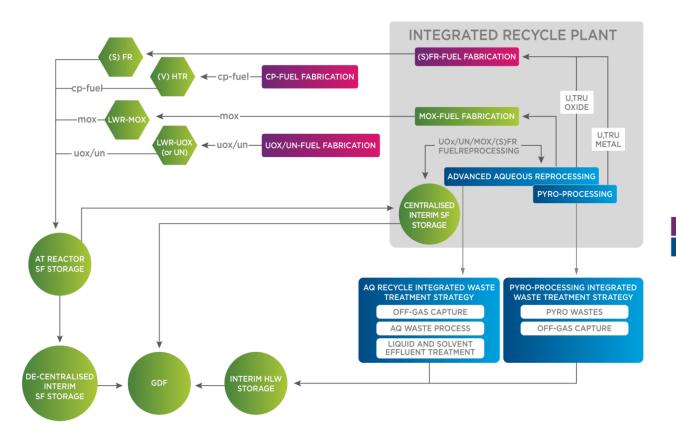












INCLUDED IN AFCP

ADVANCED FUELS

ADVANCED RECYCLE

Strategic outcomes focus



IDEAS

INFRASTRUCTURE

INDUSTRY ALIGNMENT







NET ZERO FUTURES ROADMAP

PEOPLE



SUPPLY CHAIN



STAKEHOLDER ENGAGEMENT



INTERNATIONAL INFLUENCE





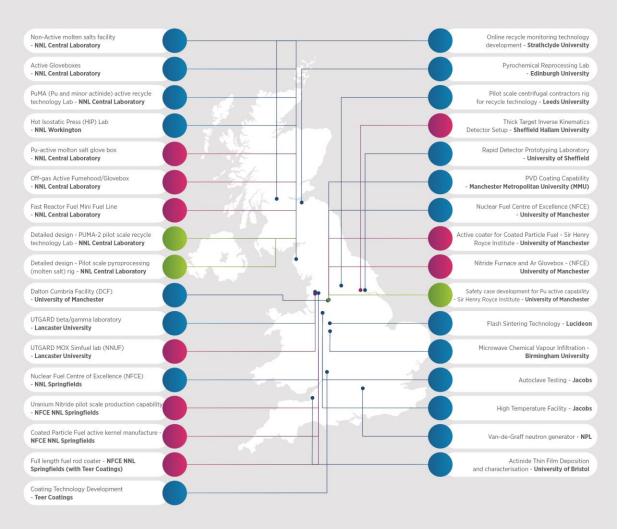
Technical progress



The UK Advanced Fuel Cycle Programme (AFCP)		TRL at start of AFCP	TRL
Accident tolerant fuels (ATF) or advanced technology fuels for light water reactors (LWRs)	High density fuels	1	3
	Coated cladding	2	6
	SiC cladding	2	3
Coated particle fuels (CPF) for high temperature reactors (HTRs)	Kernels	3	4
	Coating	3	3
Fast reactor fuels		3	3
Advanced aqueous fuel recycle technology		2	4
Pyro-processing fuel recycle technology		2	2









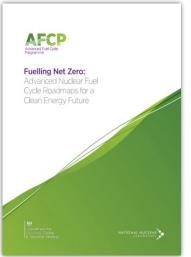


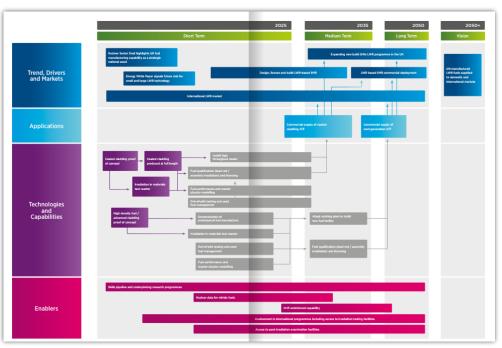


Future roadmaps





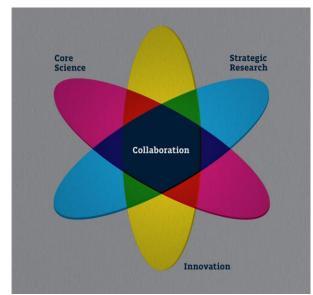












Our Science and Technology Agenda

More information and share your thoughts



https://afcp.nnl.co.uk/



Advanced Fuel Cycle Programme



afcp_uknnl

#FuellingNetZero



