

CASE STUDY:

Compact, Affordable Nuclear Power



NATIONAL NUCLEAR
LABORATORY



ATKINS
Member of the SNC-Lavalin Group

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KEY INFORMATION

SITE:

Existing UK nuclear sites

PROJECT VALUE:

£52bn UK,
£250bn globally

PROJECT TIMING/DURATION:

2019-2050

Project Overview

Tackling climate change, creating 40,000 regional UK jobs

A consortium of the best nuclear energy capability, infrastructure project experience and manufacturing technology is creating a compact, affordable nuclear power station that is quickly deployable to combat climate change. Working alongside renewables, it can be the hub of decarbonised energy systems around the world, providing electricity and heat for homes, transport and businesses, while powering the manufacture of sustainable alternative fuels.

Details on solution/approach

Affordable, Fast Deployment

Our consortium's broad skills have focussed innovations on the cost drivers for nuclear projects, namely the cost of capital. We've reviewed the entire nuclear and non-nuclear elements of the power station design and applied advanced manufacturing

techniques, digital technology and diverse thinking to standardise components, find ways to remove weather delays all of which create greater certainty around schedules and improve the speed of investment returns. This will gradually bring down the cost of each unit to £1.8bn.