



cavendish
nuclear



PEOPLE WHO INNOVATE

TO DELIVER
NUCLEAR
SOLUTIONS
SAFER, FASTER,
AT LOWER COST

www.cavendishnuclear.com

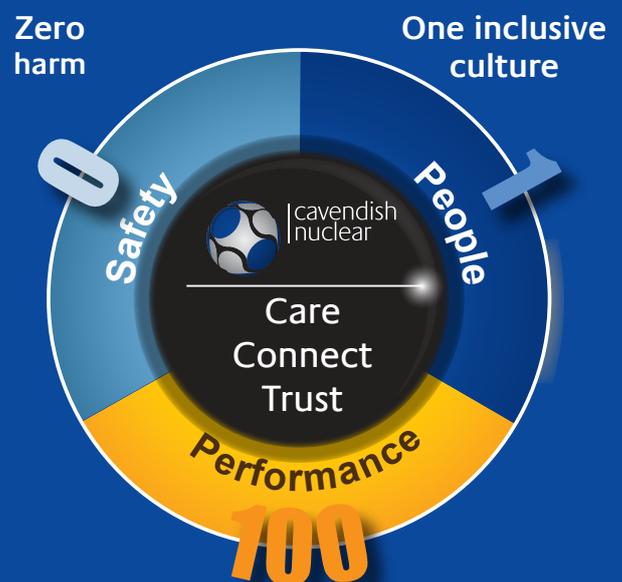
People who...

“Our mission is simple and drives our behaviour in everything that we do: Cavendish Nuclear – people who innovate to deliver nuclear solutions safer, faster and at lower cost.

As a wholly-owned subsidiary of Babcock International Group, we are trusted to deliver the highest standards of safety, quality, security and environmental protection for our customers.

Working with Cavendish Nuclear, you will experience people who put safety first, people who listen to and collaborate with you, people who are committed to driving value and people who provide innovative solutions to technical and business challenges.”

Dominic Kieran, Managing Director, Cavendish Nuclear



100% delivery on our promises

People who put the customer first



Cavendish Nuclear at a glance:



Access to 5,000 nuclear SQEP personnel



Strategic partner supporting nuclear companies in the lifetime extensions of their fleet

60+ years of industry heritage



Supporting delivery of the UK's first new nuclear power station in a generation



Licensed to operate nuclear sites



Delivery of large-scale engineering projects across the UK nuclear estate

Operating in the UK and internationally, we provide our customers with a comprehensive range of critical nuclear solutions across the markets of:

- **Clean energy**
- **Defence**
- **Civil decommissioning**

Our priority is supporting our customers to achieve their goals, applying innovation to deliver for them safer, faster, at lower cost.

From decommissioning nuclear facilities, through to supporting nuclear generation and new build, our role is to support our customers to deliver a future where nuclear is a key part of the energy solution for meeting the UK's net zero commitments by 2050.

As a wholly-owned subsidiary of [Babcock International Group](#), we have access to 5,000 nuclear SQEP personnel and reach back to technology and innovation, infrastructure and asset management and training.

OUR MARKET SECTORS:

Clean Energy

Nuclear has a vital role in delivering net zero by 2050 and we are passionate about the role we all play in that.

Clean energy is a core focus area for Cavendish Nuclear with a service offering across the following:

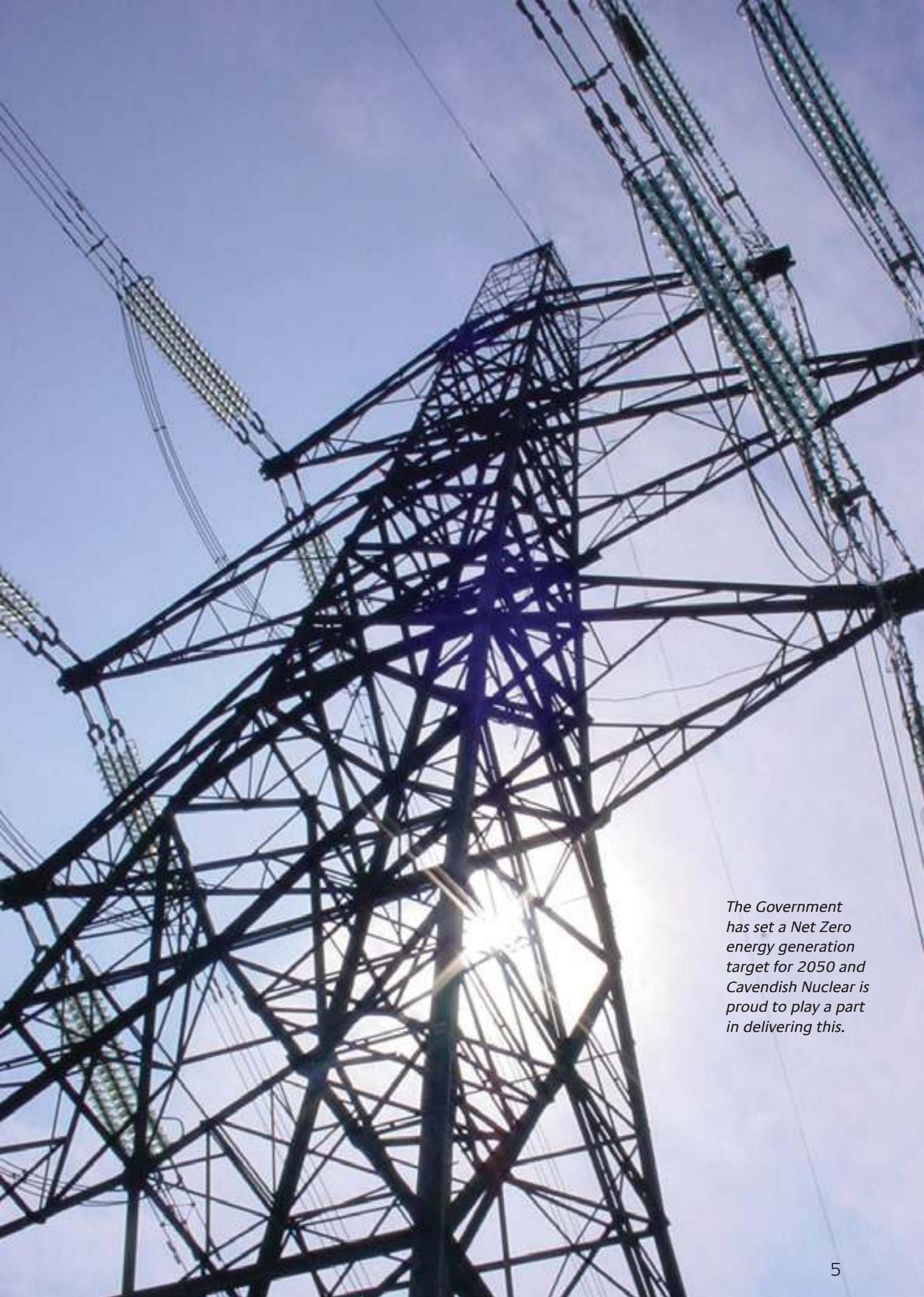
- Design, integration and digital engineering.
- Delivery of complex engineering projects.
- Programme and project management.
- Safety case expertise.
- Environmental and liabilities consultancy.
- Installation, welding and commissioning expertise.
- Advanced manufacturing capability.
- Training and comprehensive engineering support across the whole new nuclear build process.
- Independent regulatory and licence compliance advice.

Key projects/contracts include:

- **Strategic Lifetime Partnership (EDF)** - Supporting the continued operation of EDF's existing reactor fleet.
- **Hinkley Point C (Nuclear New Build Generation Company)** - Cavendish Nuclear is part of the MEH Alliance, which has a £986 million contract with EDF to deliver all of the main mechanical, electrical, heating (MEH) and ventilation works for Hinkley Point C.
- **Culham Centre for Fusion Excellence** - Supporting UKAEA with operations, maintenance and engineering.
- **Sizewell C & Moorside Consortia** - Cavendish Nuclear is a member of both consortia.
- **U-Battery (Urenco)** - Supporting Advanced Modular Reactor Development.

Part of the MEH Alliance supporting Hinkley Point C, the first nuclear new build in decades.





The Government has set a Net Zero energy generation target for 2050 and Cavendish Nuclear is proud to play a part in delivering this.

OUR MARKET SECTORS:

Defence

With the largest nuclear-capable workforce of any UK contractor and a proven supply chain capability, we have an exceptional track record in the design, build, management and decommissioning of complex nuclear assets across UK defence.

We support critical infrastructure upgrades and help to keep the UK's fleet of nuclear submarines at sea.

We play a leading role in the integration and delivery of complex engineering projects.



Our customers include:

- Ministry of Defence (MOD)
- Atomic Weapons Establishment Decommissioning (AWE)

Key projects/contracts include:

- **AWE** - We are delivering major decommissioning and new build projects at AWE
- **Submarine decommissioning** - We are supporting MOD in the development of a submarine decommissioning demonstrator at Rosyth.
- **Nuclear Technical Support Provider (NTSP) framework** - We have secured a place on a Defence Infrastructure Organisation (DIO) framework to provide specialist nuclear technical services to the Ministry of Defence (MOD). Its primary focus is on delivering the refurbishment and upgrade of critical infrastructure at HMNB Clyde.



*We help to keep the
UK's fleet of nuclear
submarines at sea.*



OUR MARKET SECTORS:

Civil Decommissioning

Our capability and experience in the complete decommissioning of nuclear related infrastructure, associated facilities and equipment allows us to provide fully integrated solutions that can be delivered in-house for both UK and international customers.

Safety (conventional, nuclear, environmental), quality and security are paramount through all aspects of our decommissioning work.

Our customers include:

- The Nuclear Decommissioning Authority (NDA)
- Sellafield
- Dounreay
- Magnox
- Hitachi-GE Nuclear Energy
- Shimizu

With the largest nuclear-capable workforce of any UK contractor and a proven supply chain capability we have an exceptional track record in integrating and delivering some of the industry's most complex civil nuclear decommissioning projects.

Additionally, our Specialist Services business provides consultancy and industry leading services in radiological assay and environmental analysis in support of operating plants, decommissioning projects and waste management facilities. This also includes our award winning products and technologies for characterising plutonium contaminated facilities, which significantly reduces uncertainty and cost in decommissioning and waste management.

Key projects/contracts include:

- Berkeley Vaults Waste Retrieval
- Sellafield Pile Fuel Cladding Silo project
- Sellafield Silo Maintenance Facility project
- Dounreay Decommissioning Framework
- Dounreay Materials Test Reactor (DMTR) Decommissioning

International

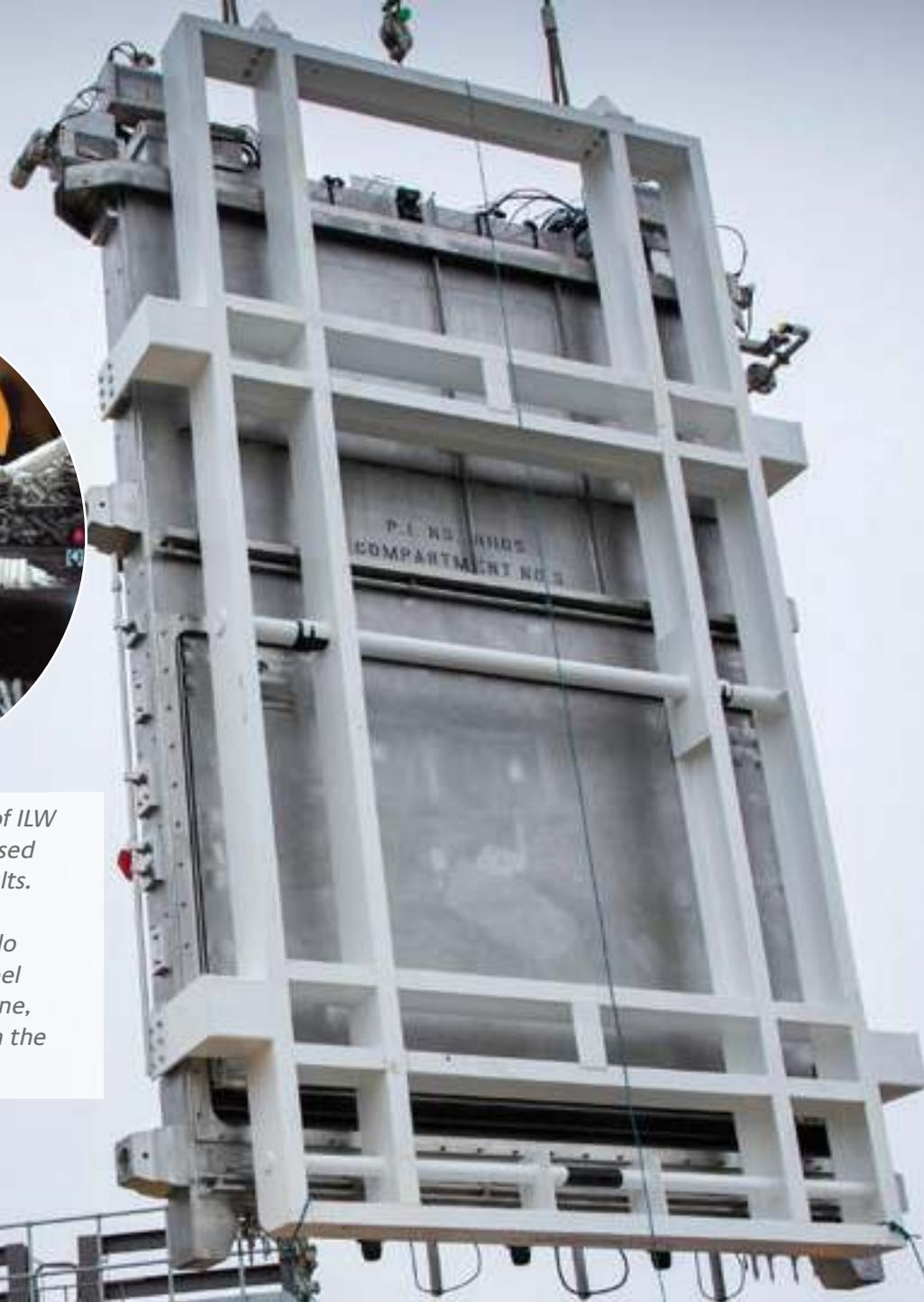
Internationally, we are focussed on Canada and Japan, building on our UK leadership in decommissioning and waste management to develop in-country capability.

Further information on our business in Canada is also available [here](#).



Above: Since 2015, almost 200 Te of ILW has successfully be retrieved, processed and packaged from the Berkeley vaults.

Right Sellafield Pile Fuel Cladding Silo project – Six 12.4-tonne stainless steel doors have been fitted into a 40-tonne, nine-metre wide steel door frame on the side of the building at Sellafield.



People who Innovate

AWESIM – Automated Welding Equipment System Inspection and Monitoring Technology

Cavendish Nuclear has secured Government backing to pioneer advanced manufacturing and sensor technologies with the potential to deliver significant savings. AWESIM, the Automated Welding Equipment System Inspection and Monitoring, is the first of its kind to combine machine learning, sensor development and advanced remote manufacturing processes to deliver welding, weld inspection and potentially weld certification all in near real time.

AWESIM laboratory scale demonstration at ANRC, University of Strathclyde.



It is being driven by urgent UK industry targets to achieve a 30% cost reduction in nuclear new build along with savings of 20% in nuclear decommissioning projects by the year 2030.

The Department for Business, Energy & Industrial Strategy's Energy Innovation Programme will allocate £1.3m for Phase 1 of the project which will focus on technology development and last until the end of 2021. The remainder of the funding will come from the industrial partners. Once developed, the technology will enable detection of flaws as they occur, leading to significant reductions in cost and time in manufacturing processes.

Data analytics to transform asset management

Leveraging innovative approaches from our submarine business.

We are using data analytics for digital engineering to understand the asset more to improve availability by optimising maintenance and predicting failures

For more information, please contact:

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