



cavendish nuclear

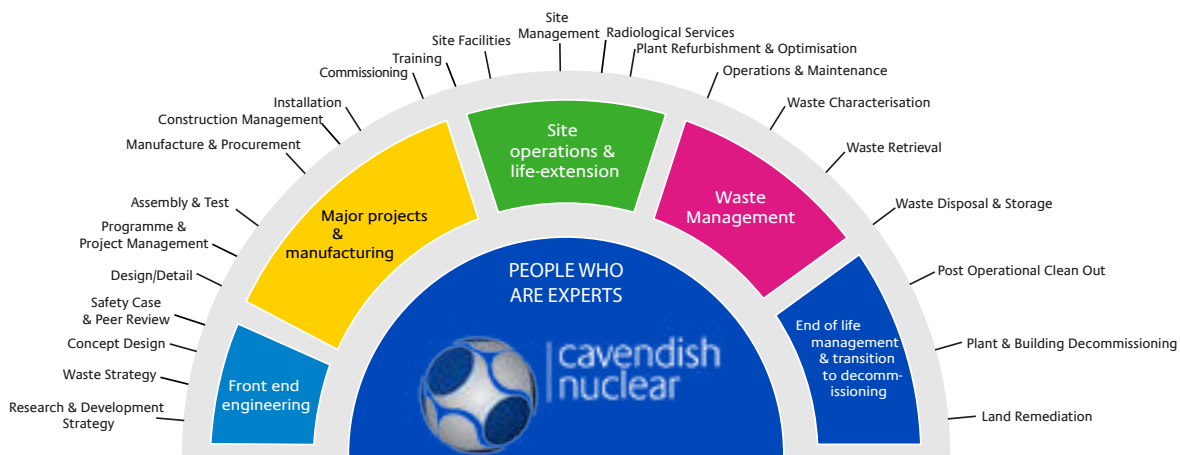
PEOPLE WHO INNOVATE

TO MAKE NUCLEAR SAFER, FASTER, AT LOWER COST

Cavendish Nuclear, a wholly-owned subsidiary of Babcock International Group, is the UK's leading nuclear services company with a growing international presence.

THE NUCLEAR LIFE-CYCLE

We deliver across all aspects of the nuclear energy life-cycle, from design and build, through operations and maintenance, to decommissioning, waste management and remediation.



YOU PROBABLY KNOW US BETTER THAN YOU THINK

Cavendish Nuclear was launched in 2013 but our heritage dates back more than half a century. Today our business is consolidated under one single brand, made up of many of the leading organisations in the history of nuclear energy in the UK.

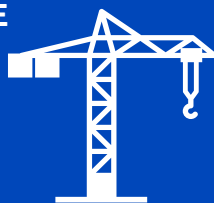


CAVENDISH NUCLEAR AT A GLANCE

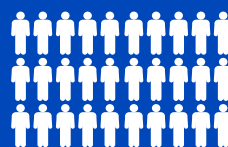
60+ years of industry heritage



Existing UK and international operations



Supporting construction of the UK's first new build nuclear power station in decades



Access to **5000** Nuclear SQEP personnel

The **largest** nuclear workforce in the **UK**



CAVENDISH NUCLEAR IN ACTION

THE PILE FUEL CLADDING SILO (PFCS)

Aim: To deliver plant and equipment capable of accessing historic Intermediate Level Waste in the Pile Fuel Cladding Silo, removing it and transferring it into containers for safe interim storage.

Customer: Sellafield Limited
Value: ~£600 Million
Duration: 2011 - 2021

Capabilities:

- Project management design & engineering.
- Manufacturing assembly.
- Works testing, install and commissioning

Achievements:

- 3 years ahead of schedule with a cost saving in excess of £400m against the previous scheme.
- Retrieval of first container of waste due in June 2019
- Exemplary example of Joint Venture working in collaboration with Sellafield Ltd.

Lynsey Valentine,
Strategy Director,
Cavendish Nuclear



“Our collaborative working approach on PFCS is set to give Sellafield the tools it needs to accelerate hazard reduction at the site - a project of strategic national importance.”

BERKELEY VAULTS

Aim: To design and install mechanical handling and processing equipment to retrieve historic Intermediate Level Waste (ILW) from three below ground vaults.

Customer: Magnox
Site: Berkeley
Value: £80 million
Duration: 2011 - present

Capabilities:

- Programme & project management
- Optioneering & design services
- Design & installation of retrievals equipment
- Inactive commissioning
- Operator training

Modules were constructed and tested off-site at our Whetstone assembly and test facilities in Leicester.

Achievements:

- Active commissioning successfully completed.
- First ILW extracted from the vaults and contained in storage boxes a significant landmark for both Magnox Ltd and the NDA.
- Successfully retrieved and packaged 15Te of ILW from the Active Waste Vaults.



MAGNOX PARENT BODY ORGANISATION (PBO)

Aim: To take 11 sites into Care and Maintenance (C&M) and 1 to interim state (heathland).

Customer: NDA
Site: 12 UK sites
Value: ~£2.8 billion
Duration: 2014 - 2019

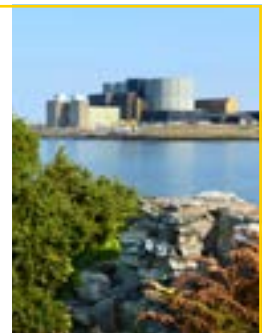
Capabilities:

As the lead partner, we employed 30+ management team to direct and manage the site licence company (SLC).

- Delivery of an innovative & integrated waste management strategy resulting in significant benefits to Magnox and the wider NDA estate - >£1bn saving
- Lead and learn through programme, portfolio management and aligned procurement, people and safety case strategies.
- Organisational change delivered by a decommissioning focused leadership team.

Achievements:

- Technical & organisational changes have delivered a >20% reduction on existing plans core headcount.
- First Magnox site moved into care and maintenance (Bradwell).
- Relicensed & integrated 2 RSRL sites into Magnox only seven months after contract start.



LIFETIME PARTNERSHIP WITH EDF ENERGY

Aim: To provide EDF with a comprehensive through life asset management and support service contributing to extending the life of EDF's nuclear fleet.

Customer: EDF
Value: £40 million per annum.
Duration: 17 years

Capabilities:

Fuel Route – using our original equipment manufacture (OEM) experience, suitably qualified & experienced personnel (SQEP) resources and IP to provide a fully integrated fuel route management service to end of station life and through de-fueling.

In-Core Inspection –integrated services for remote inspection equipment (NICIE trepanning graphite core sampling) to enable collation of safety-case underpinning data.

Outage Support – SQEP site implementation teams deliver world class station outages particularly for DNB Gas Circulators and at Sizewell B.

Reactor Protection – comprehensive reactor protection support for the lifetime extension of all power stations.

Achievements:

- Fuel Route: Nose unit turnaround reduced from 4 yrs to 18 mths.
- DNB Gas Circ Outage: 3.5 mths of 24/7 working.
- Core Inspection: 417 channels inspected in a year. 200% reduction in equipment faults
- Reactor Protection: In 2018 >1500 primary control units repaired.

James Ewence
Business Director,
EDF



“Relationships and trust are at the heart of our Lifetime Enterprise Agreement with EDF Energy. Where we have strong relationships, we deliver exceptional results. Utilising our wide range of capabilities, we are integrating the demands of extended generation and end of life transition to meet our goal of making nuclear safer, faster, at lower cost.”

HINKLEY POINT C NEW BUILD – MEH JOINT VENTURE

Aim: Cavendish Nuclear is one of four partners in the MEH Alliance, providing integrated delivery of the whole mechanical electrical and HVAC installation works for the first nuclear power plant construction in the UK for two decades.

Customer: EDF Energy
Value: Total value of works managed by Alliance ~£2 billion
Duration: 2016 - 2025 (target commercial operation)

Capabilities:

- Execution Design
- Manufacture
- Procurement
- Installation
- Testing
- Commissioning support

Achievements:

- Launch of materials procurement needed for pipe spool fabrication.
- Constructability and schedule optimisation for the unit build.
- Initial construction team mobilised to site.
- First equipment installation of the walled in tanks in summer 2019 with full installation works commencing in autumn 2020.

