

Great British Energy – Nuclear

We're 'entering a golden age of nuclear'

Nuclear energy: the UK's path to secure, reliable, and clean power.

GBE-N is delivering the government's nuclear programme.

£2.6 billion for SMRs in this Spending Review period.

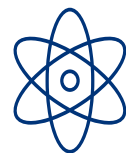


“This is the biggest backing of nuclear energy in a generation”

Our role in the UK's nuclear energy future

Purpose

We make new nuclear projects happen to give us secure, reliable and sustainable energy.



Deliver

The governments nuclear programme.

Mission

We deliver, enable and advise on new nuclear projects.

We do this by being experts in our field and focusing on outcomes; by prioritising safety; and by driving efficiency through learning.

We collaborate with government and industry to initiate projects, secure sites, select technologies, deploy development funding, and build skills.



Enable

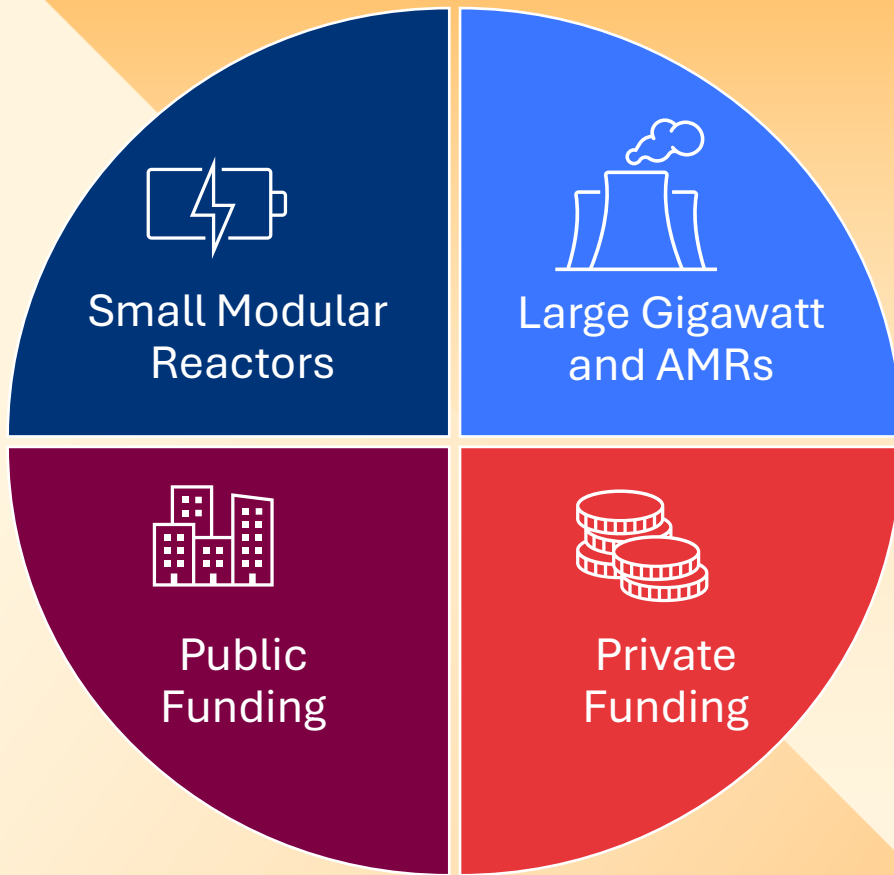
Create the conditions: financial, regulatory, and supply chain – to ensure successful programme delivery.



Advise

Provide strategic, evidence-based advice to guide nuclear policy.

Advise and enable new nuclear

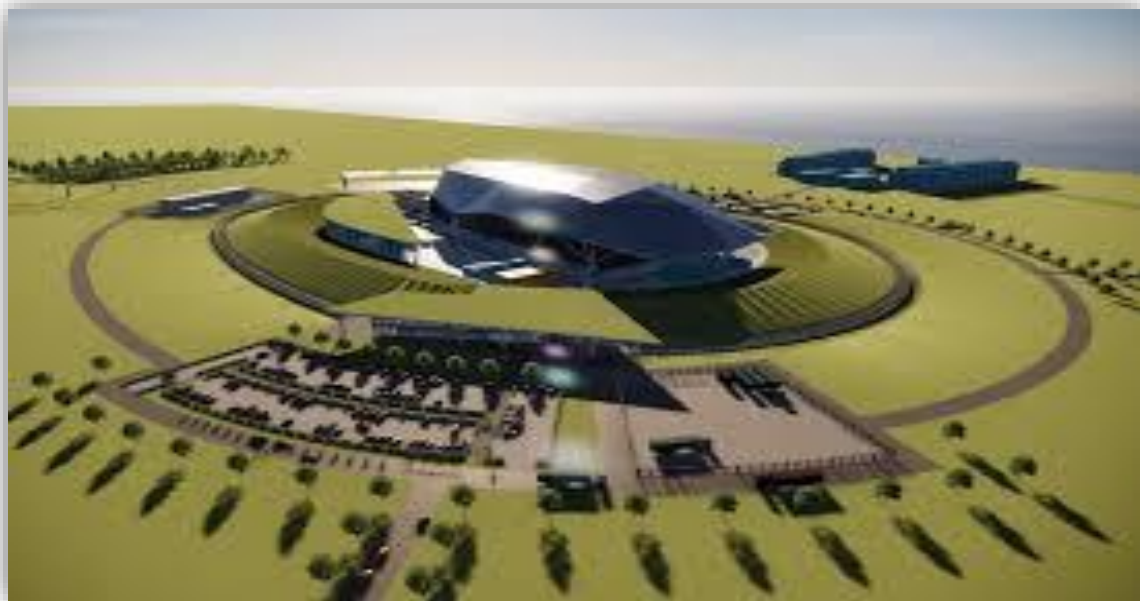


Critical Enablers

- Regulatory Reform
- Planning Reform
- Supply Chain Development
- Skills
- Stakeholder Engagement

GBE-N is commissioned by the British Government to assess future nuclear projects.

SMR Project Vision and Mission



Vision

To produce secure and reliable zero carbon power to the grid that will run into the 2100s whilst optimising UK capabilities.



Mission

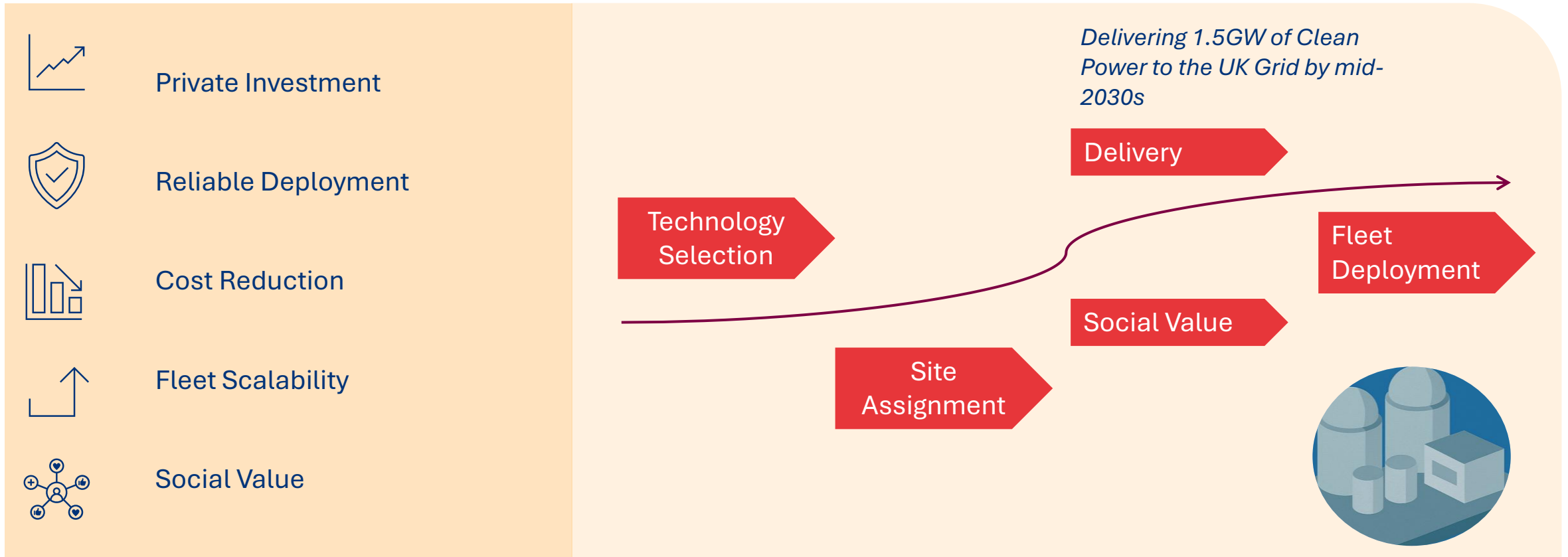
To build the new SMR power plants safely, at pace and at value for money to support the UK's energy security and net-zero targets, ensuring repeatability for future plant builds.

Why SMRs?

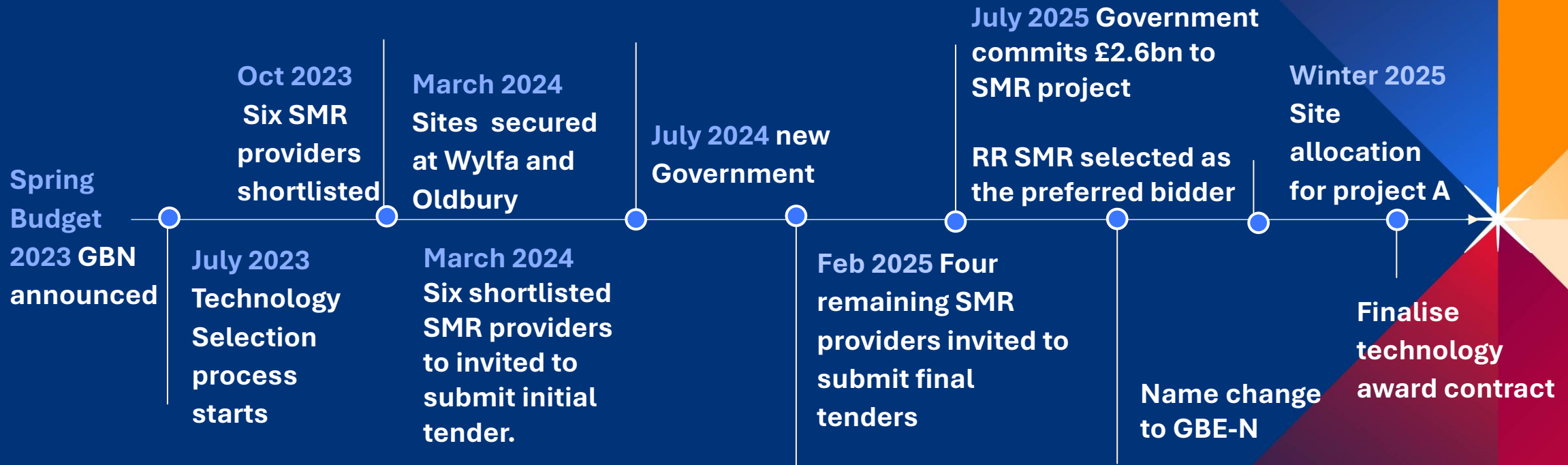
- 1. Increase energy security:** The project will add up to 1.5GWe of reliable, zero-carbon power, enhancing energy security and resilience while reducing reliance on imported energy.
- 2. Build Supply Chain Capacity:** The programme will create a nuclear project pipeline that will increase investment in the UK supply chain.
- 3. Create High Quality Jobs:** initial estimates suggest the project could support up to **3,000** jobs (direct) on site during peak construction.
- 4. Accelerate Regional Growth:** directs investment to the regions where the project and the factories are sited.



SMR Programme Objectives



We've come a long way ...



We've got a lot more to do together



Site Characteristics

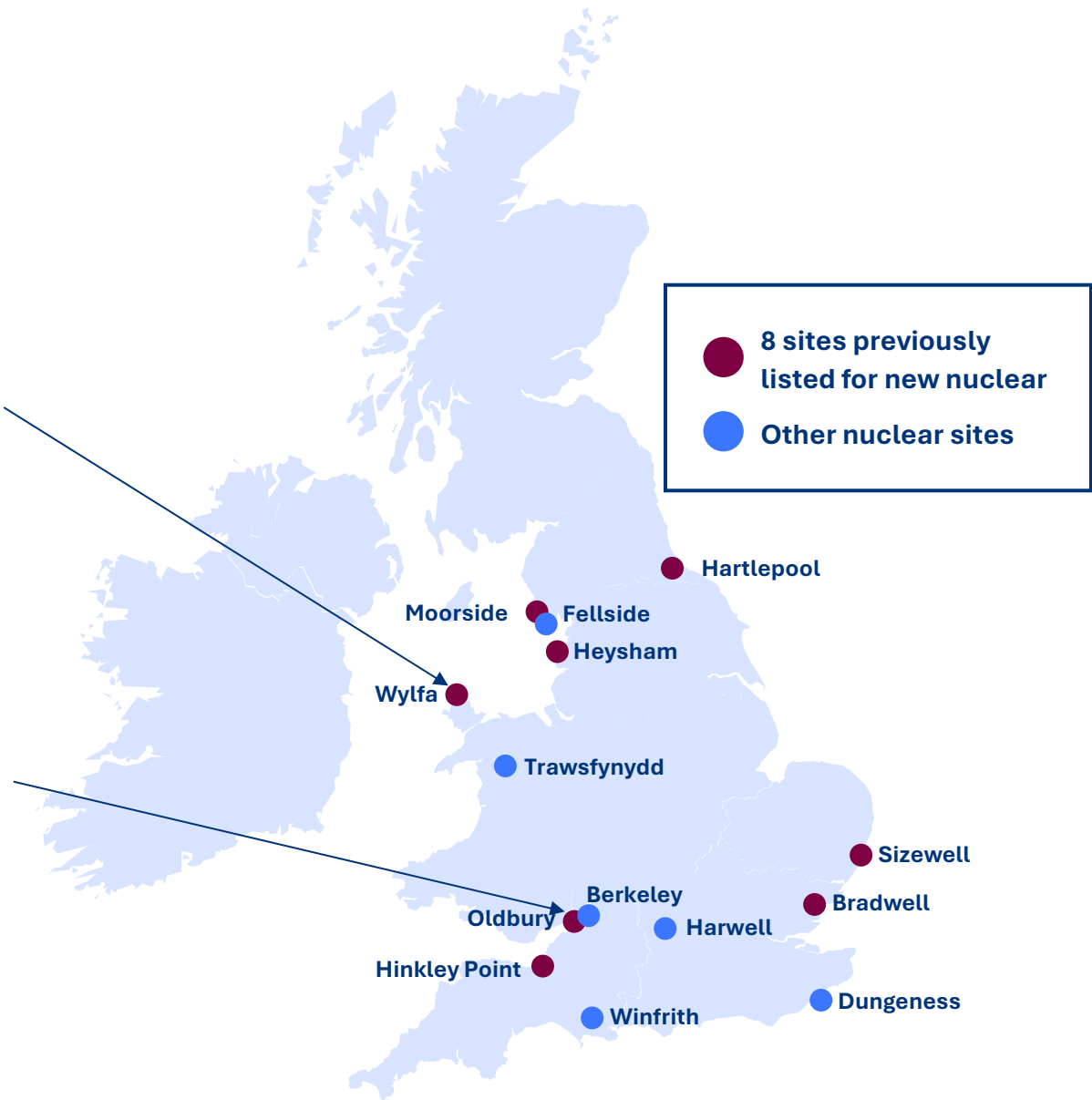
Our Sites



Wylfa



Oldbury



GBE-N owns two nuclear sites, **Wylfa** on Ynys Môn (Anglesey) and **Oldbury-on-Severn** in Gloucestershire.

Both sites are capable of deploying SMR projects and early site characterisation work has already begun.

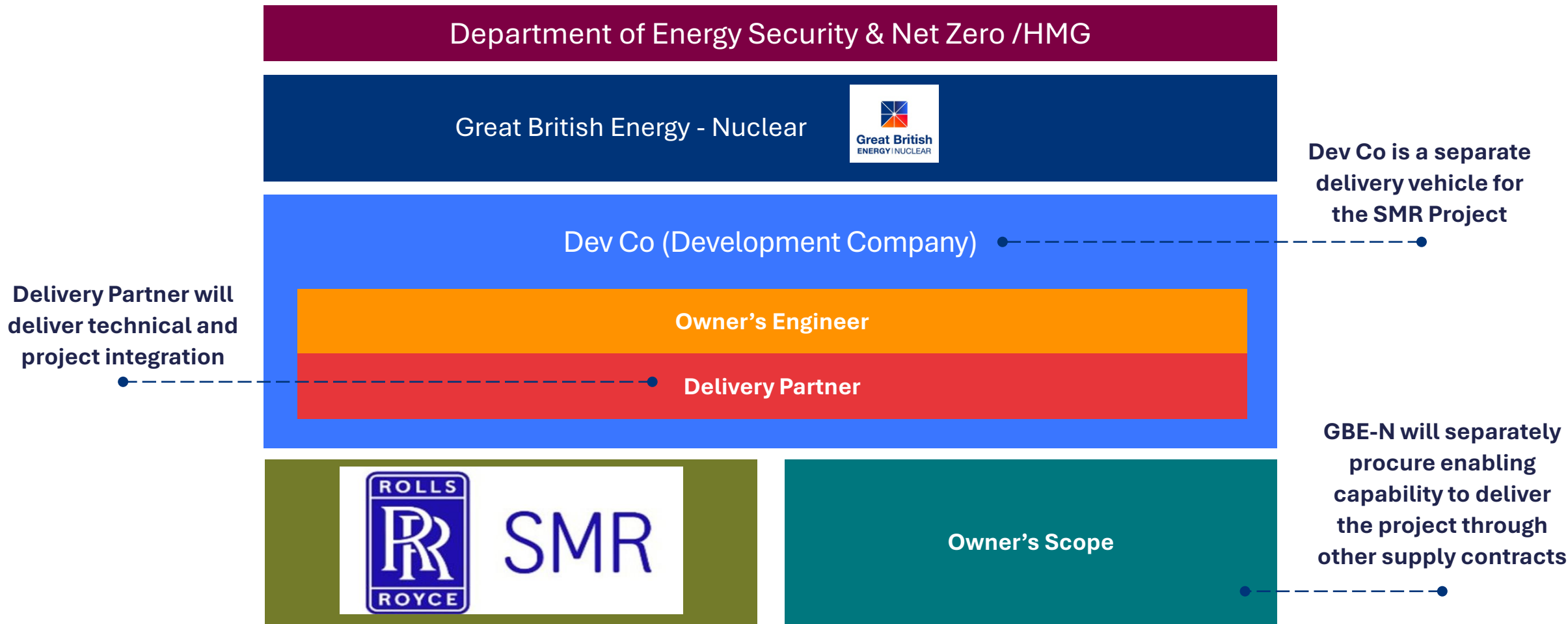
Site allocation will happen towards the end of 2025.

Wylfa



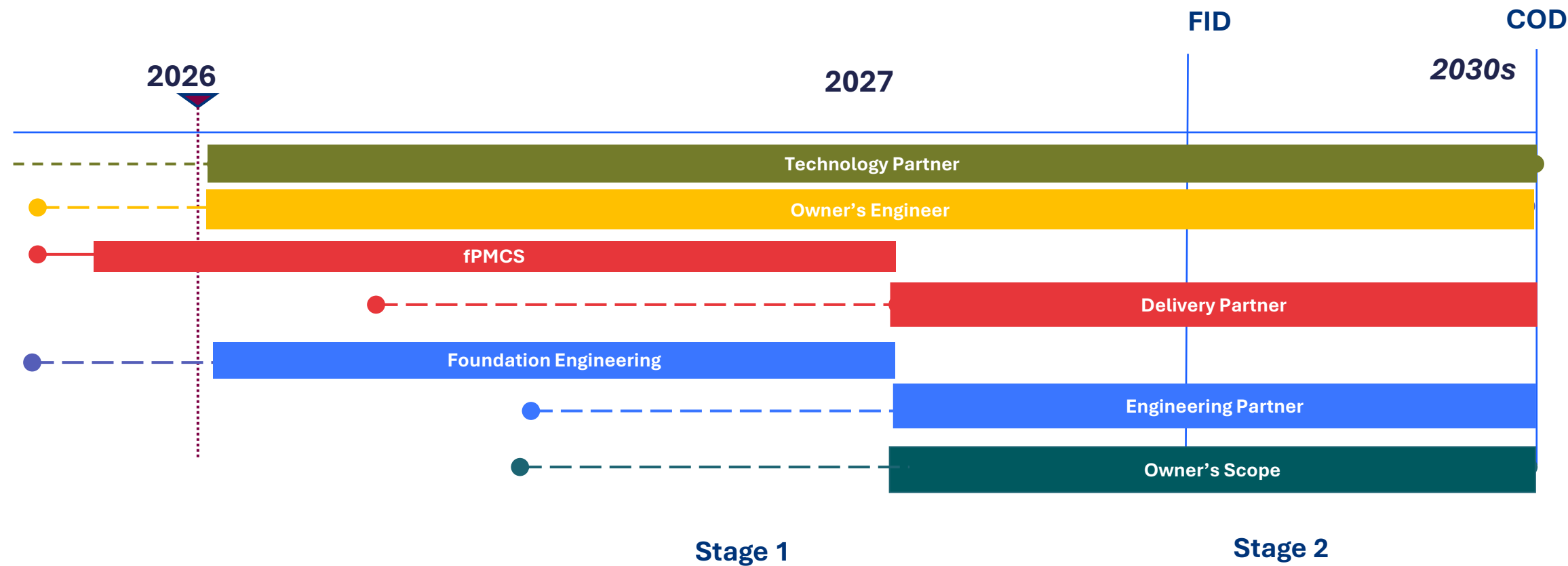
Project Delivery Model

SMR Project Enterprise Model



GBE-N will deliver the first SMR Project targeting up to 1.5 GWe of electricity to the Grid from the mid 2030s

Procurement Schedule



Technology Partner: Rolls Royce SMR

Integrated Approach

An Integrated whole power station approach focused on standardisation, repeatability and build certainty

Unit characteristics

Up to 470MWe

Electrical capacity (net), subject to configuration and siting

PWR

Well-known technology – regulated and used globally

1,358 MWth

Thermal Capacity

>92.5%

Expected Availability - Highly reliable baseload capacity

60 years

Plant design life

0.3g

Seismic Design



45,000m²

Plant Footprint (inside berm, main plant)

100,000m²

Site Footprint (inclusive of berm)

<1 x 10⁻⁷

Core Damage Frequency (per year)

Industry Std UO₂

Fuel type in 17 x 17 array

18 – 24 months

Fuel Cycle

18 days

Refuelling Outage

Standardised

Repeatable

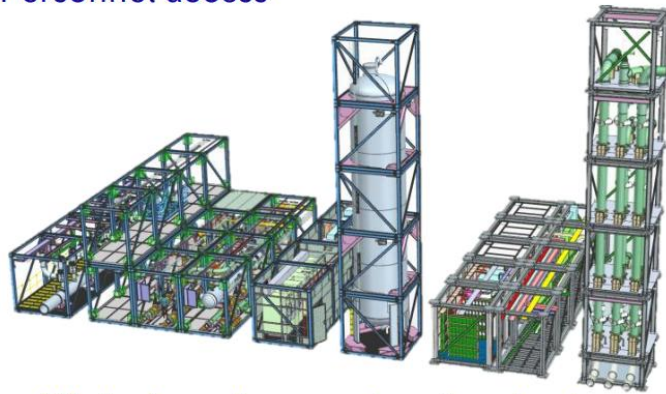
Build Certainty

Modularisation

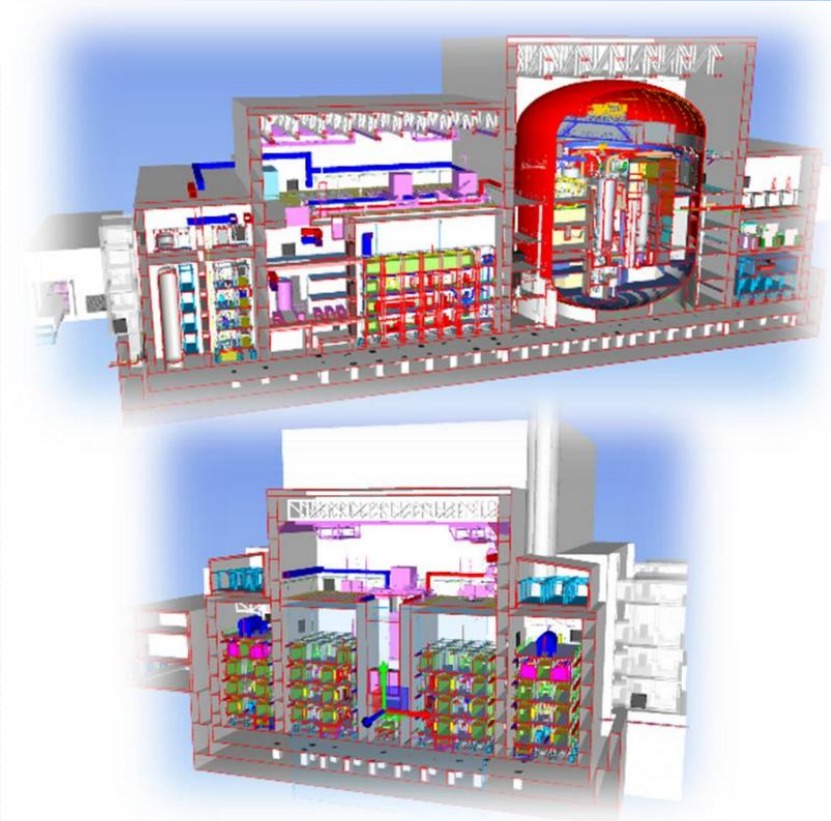
Modularising the power station to take advantage of factory production systems that remove traditional construction risk

Standard Modules:

- Vertical and horizontal MEP modules
- Tank modules
- Personnel access
- Pipe cable and utility routing
- Shielding and segregation
- Structural modules
- EC&I modules



All designed around a standard grid size for integration



Modules
(assembled components)



Clusters
(assembled modules)



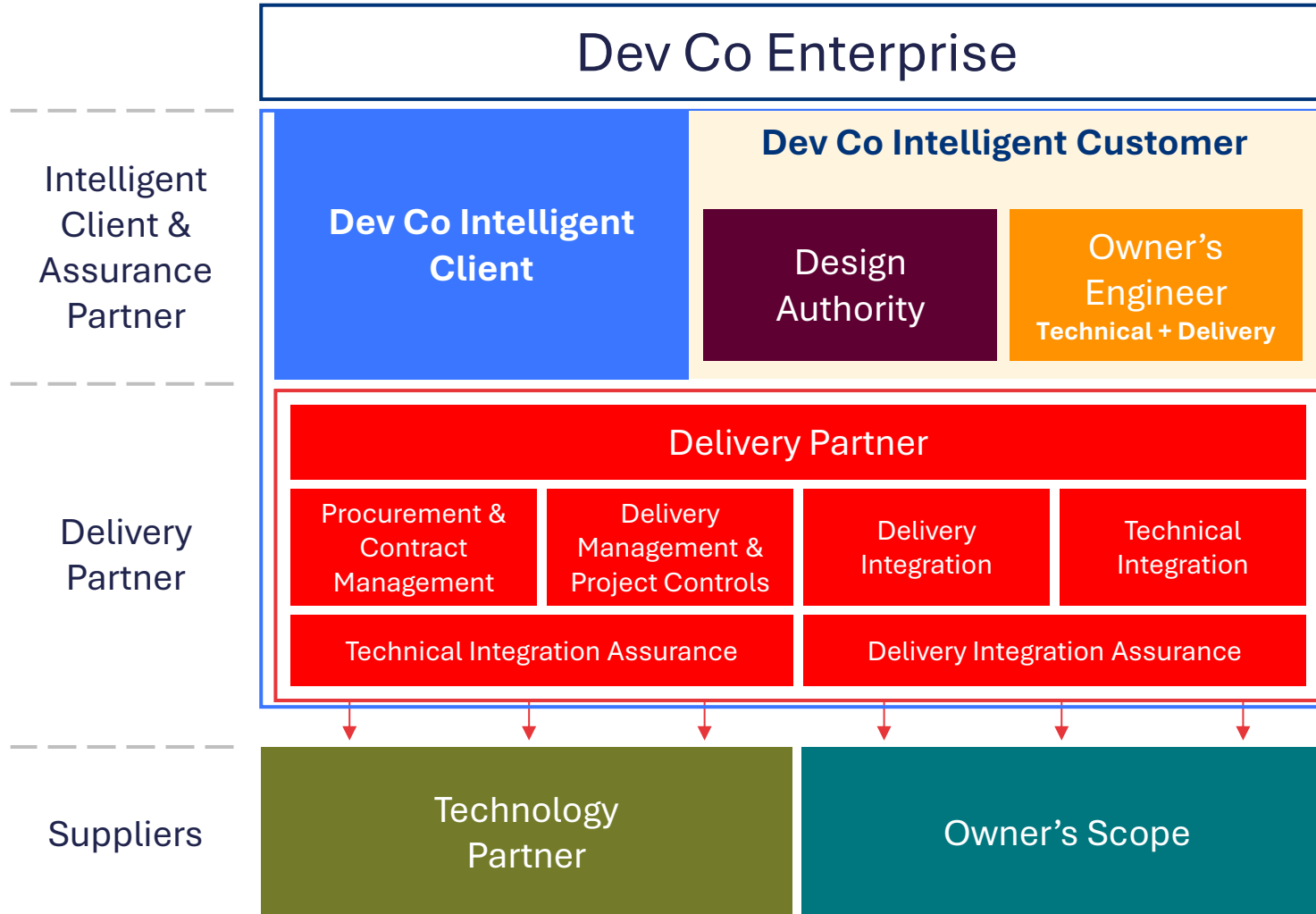
Blocks and Buildings
(Power Station)

Integrated Approach



Procurement Scopes

Delivery Strategy: Overview



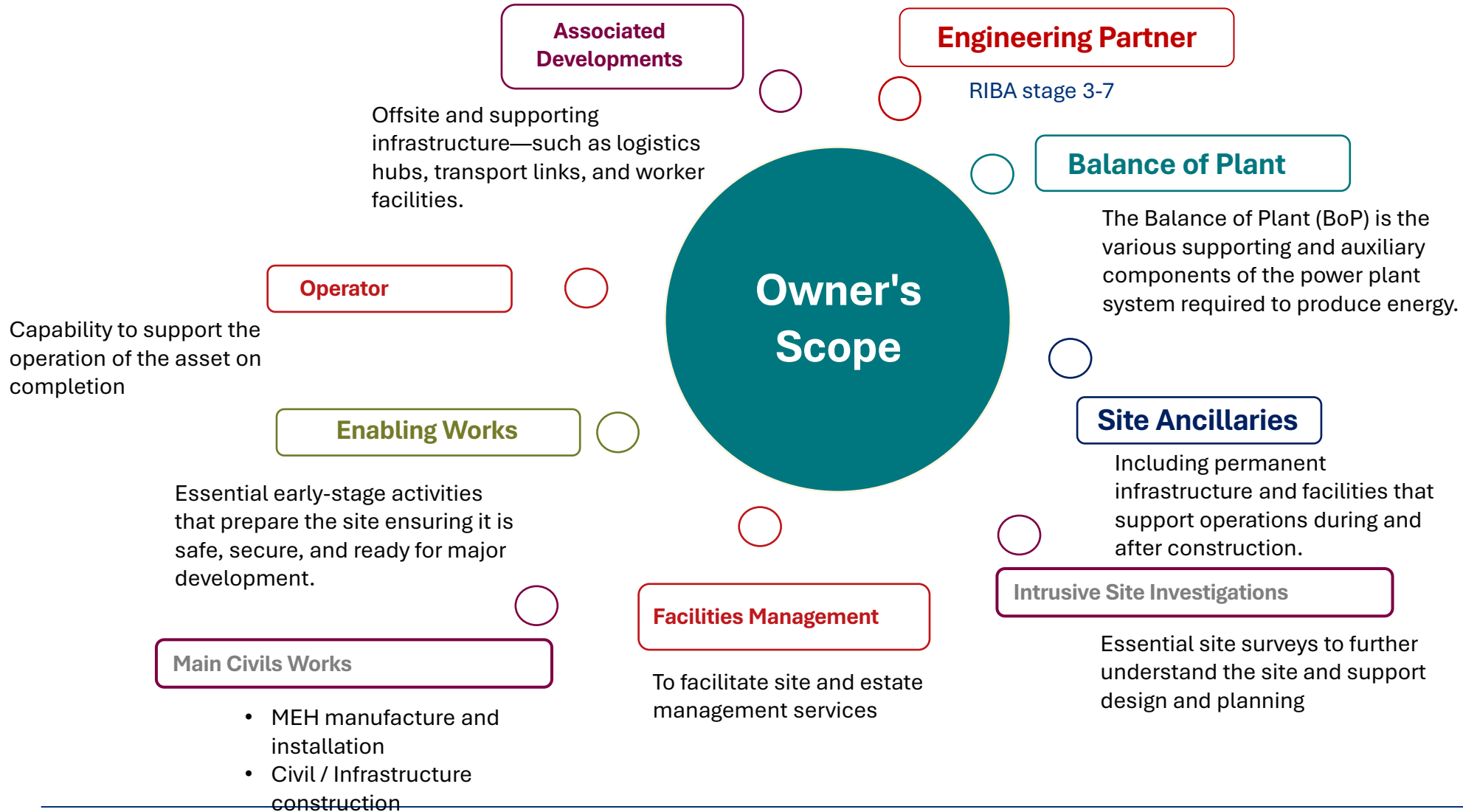
The **Intelligent Client and Intelligent Customer** is the licensee, duty holder, owner and a potential future operator of the SMR plant.

The **Owner's Engineer** plays the role of subject matter expert to deliver independent technical and delivery Line of Defence (LOD) 2 assurance on major design and build contracts.

The **Delivery Partner provides delivery integration and management**, covering the full scope of the SMR project.

The Project Supply Chain, comprising the **Technology Partner**, balance of **Owner's Scope, Siting/Major Permissions and Digital**. The **Technology Partner** is responsible for the delivery of the integrated technical design and supply of the SMR Plant.

Contracting Opportunities - what are we looking for?



Delivery Philosophy

Approach: Best for Project



We will be operating a **best for project approach** across all contracts



We are **actively seeking insight and expertise from the market** to shape and challenge the project at all stages



This is a **long term**, complex and challenging project and can only be successfully delivered through **collaboration** between all parties



Health & safety is the heart of the project and should override all other aspects

...to ensure **world class delivery whilst ensuring compliance** at every stage of this **critical UK infrastructure project**.

Licensee and Duty Holder: Specified and Embedded

As project developer, owner, future operator and nuclear site licensee in respect of the SMR asset, the Client (GBE-N) is responsible for delivering the Project and will...

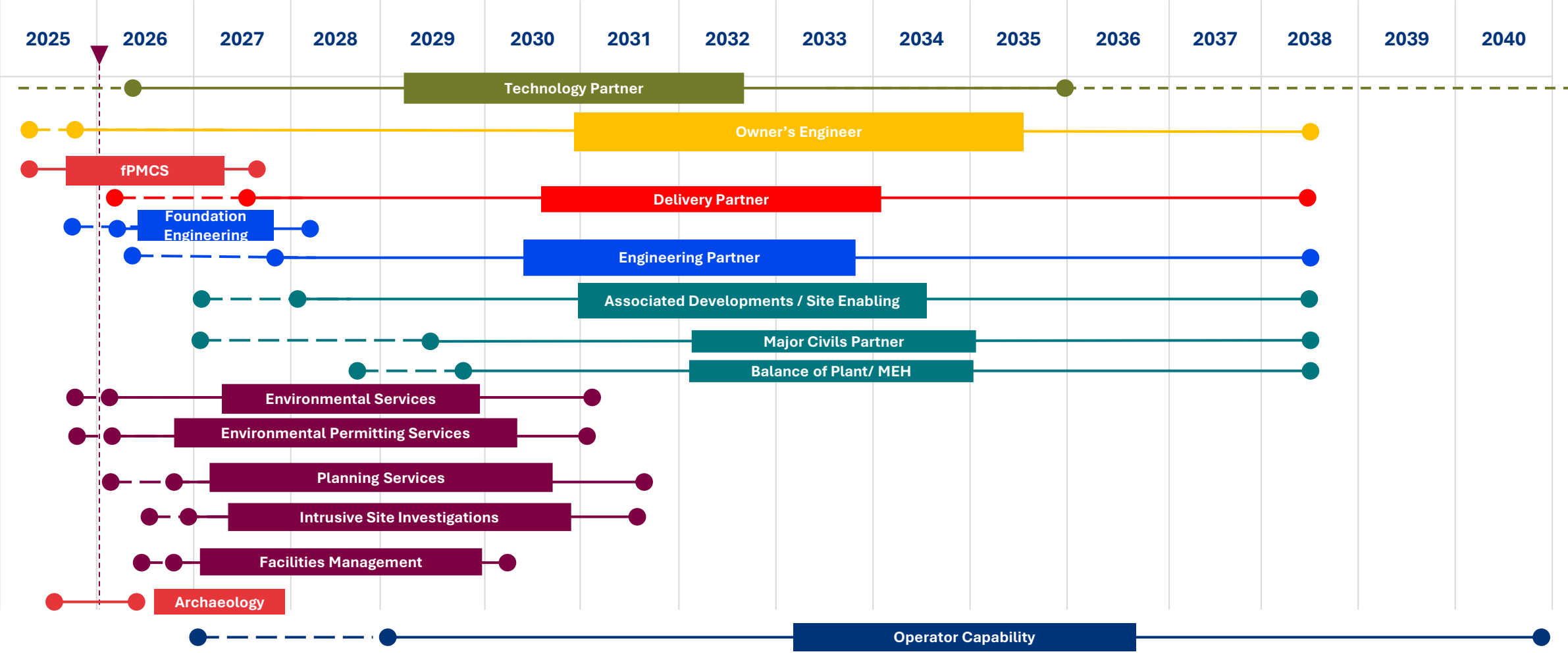
Maintain control of Project activities through a single Integrated Management System by:

1. Accepting all Service Delivery Plans and Management Arrangements proposed by the Delivery Partner
2. Implement Hold Points to control specific delivery activities
3. Maintain adequate capabilities as an Intelligent Customer to meet Office of Nuclear Regulation (ONR) Requirements

- **Remain accountable** for the safety, security, safeguards and environmental protection of the SMR Project.
- **Maintain overall oversight and control** of all activities which might impact safety, security, safeguards, and/or environmental protection in relation to the **Project** and the **Site**.

Procurement Schedule

Indicative Procurement Timeline



Disclaimer: All dates are indicative only and are subject to approvals.

Evaluation Approach

Technical Evaluation

Evaluation Principles



Assess potential working relationship



Flexibility for the DP to shape role



Focus on thinking rather than solution

1

Focus on Service Delivery Plans

- Technical questions on the drafting of a number of **Service Delivery Plans**
- Enable understanding of what the DP would propose to deliver in a particular area
- Potential to use some of the proposed Dialogue to discuss Service Delivery Plans in a process similar to the Dev Co acceptance process.

2

Scenario Questions

- Scenario questions to evaluate the ability to deliver optional and phase-specific services.
- A list of assumptions will be provided, and evaluation will focus on how the scenario response is formulated.

Commercial Evaluation

Evaluation Principles



Assess potential working relationship



Flexibility for the DP to shape role



Focus on thinking rather than solution

Example Commercial Evaluation Components

Pricing and Costing

- Total pricing and costing will be evaluated for core services in Stage 1.
- Indicative costing for Stage 2 will be non-committal.

Scenario Costing

Corresponding cost profiles will be evaluated for each technical scenario against rate cards.

Fee % at risk

Tendered level of fee at risk to be evaluated

Cost Estimate Development

Each bidder will be required to explain the assumptions and logic behind their cost estimates.

Social Value Evaluation

Evaluation Principles



Assess potential working relationship



Flexibility for the DP to shape role



Focus on thinking rather than solution

1. Creating the Right Jobs & Skills

Create jobs and attract talent to strengthen the UK nuclear industry

Create employment and training opportunities including for those facing barriers.

Support educational attainment to address skills gaps in the UK nuclear industry.

2. Developing Resilient Supply Chains

Enhance nuclear supply chain diversity and resilience in the UK

Create a diverse supply chain to enhance capacity, mitigate risks, and address critical capability gaps in the UK nuclear industry.

3. Building Diverse & Productive Workforce

Address workforce inequality across various characteristics

Tackle inequality in employment in the contract workforce and support in-work progression.

Support GBE-N target for supply chain of 50% gender balance by 2030.

Social Value is a core part of delivery not a bolt-on.

Conflicts of Interest

Conflict of Interest Matrix

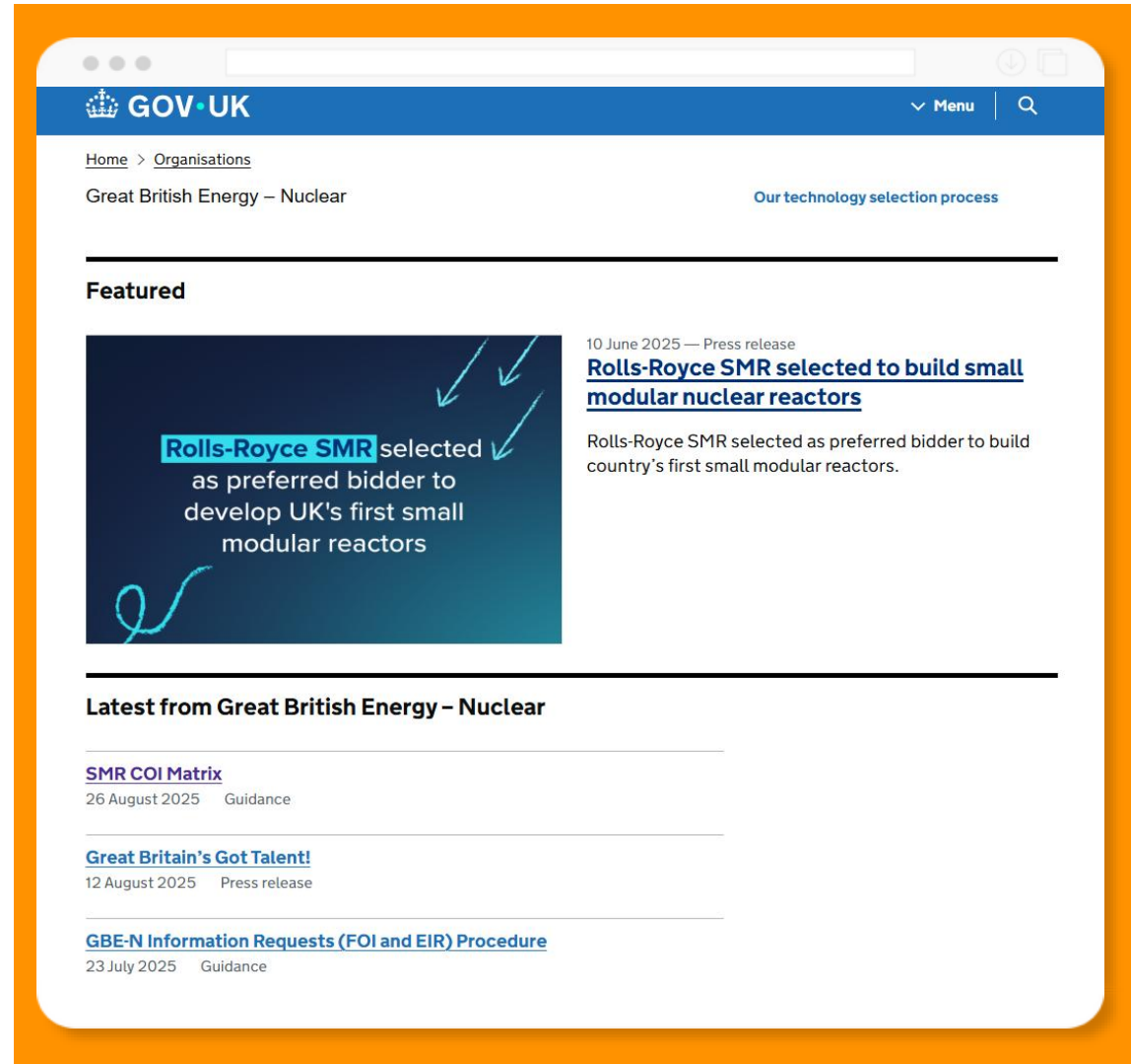
GBE-N has published a table with rules for the management of Conflict of Interest

Find it here: [SMR COI Matrix - GOV.UK](#)

The Matrix may change in future to reflect changes in the political, legal, regulatory context, project strategy or market developments.

Please consider your corporate priorities in the context of this COI Matrix and make tendering decisions accordingly.

For general enquiries or supplier support, please email us at supplychain@greatbritishnuclear.uk



COI Principles

Key Red Lines for SMR Project

No self-assurance

Contractors must not assure their own work or any work they have a vested interest in.

No internal conflict

Parent/group boards must not prioritise one contract over another within the same SMR project.

- Includes favouring incentives over liabilities across contracts.
- Includes resource prioritisation that benefits one contract at the expense of another.

GBE-N COI Approach – Principles Over Prescription

Outside red lines, GBE-N favours principle-based COI assessment.

Bidders and GBE-N to jointly assess scenarios and mitigations.

Mitigations may include:

- Clear separation of business units.
- Separate legal entities within group companies.



Routes to Market and Supplier Selection

What do we want from our Supply Chain?

GBE-N wants to work with Suppliers who:



Can demonstrate and maintain an impeccable approach to Health and Safety Compliance



Can demonstrate and commit to maintaining data security standards



Uphold legal and ethical standards and act with integrity



Enable GBE-N's strategic objectives and priorities



Deliver value for Money



Act in the best interests of the project

Routes to Market

Tier 1 Contracts

All contracts over mandated threshold values will be competed accordance with the **new Procurement Act (PA23)**.

GBE-N Contracts will be procured through a mix of:

- Mini- competitions through existing Crown Commercial Services Frameworks;
- GBE-N specific Frameworks and
- GBE-N Specific Contracts.

Tier 2 and 3 Opportunities

As Sub-Contractors to GBE-N Tier 1 Contractors

Information on how to register interest in GBE-N Contract opportunities and Crown Commercial Services Frameworks can be found in GBE-N's Supply Chain Brochure – circulated after this event.



Procurement Process – Generic Overview

Phase 1 - Selection

Phase 2 - Award

1	2	3	4
Conduct Procurement Specific Questionnaire (PSQ) stage Minimum (25 days)	Evaluate PSQ potentially leading to down selection of bidders *Downselection may be based on pass / fail and / or scored questions.	Issue Invitation to Tender (ITT) down selected bidders *There may be instances where there is a subsequent down-selection and / or dialogue phase built into procurements. Where this is the case, GBE-N will communicate this to the market ahead of PSQ Launch.	Evaluate ITT leading to announcement of preferred bidder

PSQ Evaluation Approach

Compliance Questions

Those we “have” to ask

- Government Standard Compliance
- Pass/Fail compliance
- Legal Compliance Requirements – Pass / Fail

Experience Questions

Those we “want” to ask (Contract Specific)

- Scored and Weighted = Maybe subject to minimum threshold
- Capability / Contract specific

Standard Government Compliance



Mandatory and Discretionary
Exclusion Criteria (including COI)

Pass/Fail



Economic and Financial Standing

Pass/Fail

Legal Compliance



Insurance Requirements Levels

Pass/Fail



Prompt Payment Terns

Pass/Fail



Health and Safety and Security

Pass/Fail



Ethical Sourcing and Human Rights

Pass/Fail



Environmental Sustainability

Pass/Fail



Past Skills and Experience – Tailored

Scored

ITT Evaluation Approach

Tender (ITT) Questions

- Criteria and evaluation methodology will be tailored to the requirements of the contract
- GBE-N will select the Most Advantageous Tender (MAT)

	Technical / Quality/ Capability	Scored
	Commercial / Financial	Scored
	Social Value	Scored

PSQ Standard Government Compliance

Government Standard – [Mandatory](#) Grounds for exclusion

Pass/Fail compliance

A supplier or Associated Person [will](#) be excluded from participating in the procurement if they have been convicted of any of the following criminal offences:

- Participation in a criminal organisation or serious organised crime,
- Bribery or Corruption,
- Fraud,
- Terrorism offences or offences linked to terrorist activities,
- Money laundering,
- Slavery, compulsory labour (including in respect of children) or human trafficking, or
- Offences in connection with the proceeds of drug trafficking
- Breach of the Employment Relations Act 1999 (Blacklists) Regulations 2010



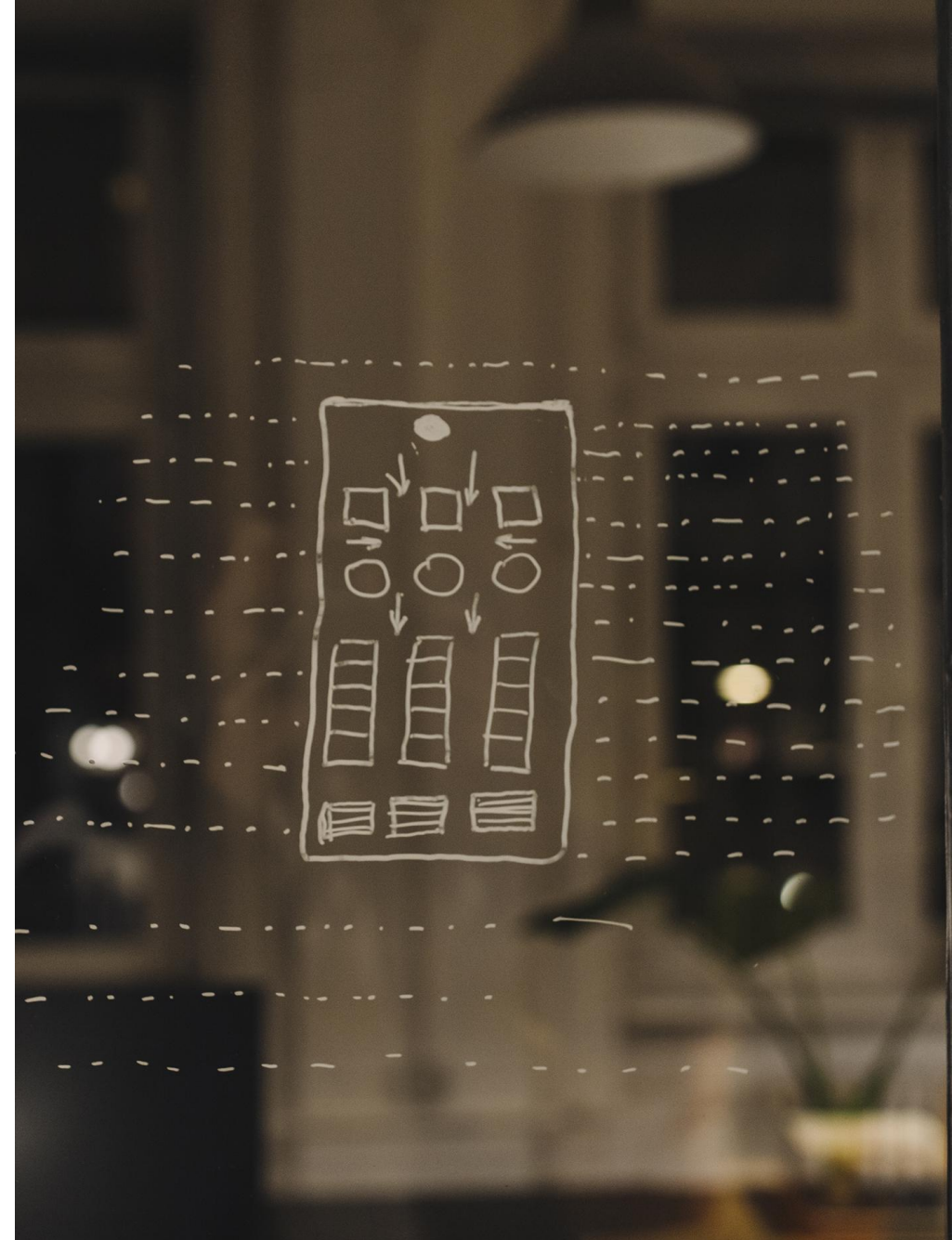
PSQ Standard Government Compliance

Government Standard – [Discretionary](#) Grounds for exclusion

Pass/Fail compliance

A supplier or Associated Person [may](#) be excluded from participating in the procurement where it has:

- Breached its tax and social security obligations
- Breached environmental, social and labour laws
- Been subject to bankruptcy or insolvency or winding up proceedings,
- Has its assets been administered by a liquidator or court,
- Is in an arrangement with creditors,
- Has suspended its business activities, or
- Is in any analogous situation.
- Been subject to grave professional misconduct, which renders the bidder's integrity questionable;
- Where there is a [Conflict of interest](#) which cannot be effectively remedied by other less intrusive measures
- Bidder has or has undertaken to unduly influence the decision-making process of the organisation, to obtain confidential information that may confer undue advantages or to negligently provide misleading information that may have a material influence on decision concerning exclusion, selection and award



PSQ – ECONOMIC AND FINANCIAL STANDING

- Suppliers will be required to demonstrate that they have sufficient financial capacity to perform the contract; and / or whether risk mitigations can be put in place to address any identified issues with supplier's financial capacity.
- Financial capacity thresholds will be set as proportionate to the value and complexity of the contract opportunity.

At a basic level this may require Suppliers to submit all / any of the following to support the EFS assessment:

- Company Accounts / Audited Financial Statements;
- Statement of the supplier's turnover for the last 3 financial years
- Statements from banks
- Financial Projections
- Parent or ultimate parent company audited accounts

GBE-N may also consider supplier's overall Credit Score Rating.

Where single Suppliers are unable to demonstrate that they have sufficient Economic and Financial Standing on their own merit, they may rely on an alternative supplier to act as their guarantor – provided that:

- 1) The nominated supplier can pass the economic and financial standing threshold tests; and
- 2) The nominated supplier provides a form of guarantee which is acceptable to GBE-N.



PSQ – INSURANCE LEVELS

Suppliers will be required to confirm that they **have**, or will be able to commit to obtaining **prior to the award of the contract** insurance at the levels specified in the tender documents.

All suppliers will be required to hold Employer Liability Insurance – **Minimum £5 million**

Other Insurance levels will be set as proportionate to the value of the Contract and the nature of the goods, works and services being delivered. The types of insurance required may be, but not limited to:

- Professional Indemnity Insurance
- Public Liability Insurance
- Product Liability Insurance



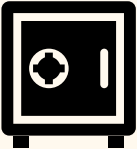
PSQ – PROMPT PAYMENT TERMS

The PA 2023 requires payments due any payable under any contract to be paid **within 30 days** and for this requirement to flow down to all levels of the supply chain.

Suppliers will be asked to demonstrate that they have in place systems to pay their supply chain promptly and efficiently- and in any event within 30 day. Evidence of positive responses.



PSQ – Health Safety and Security

	Conventional Health and Safety	Our aim is to be the safest project in the UK. Suppliers will be required to demonstrate a track record in setting and maintaining high standards of health and safety compliance in their organisations – including compliance with regulations and facilitating training and awareness in their organisations.
	Cyber Essentials	All companies that wish to work with GBE-N must hold and maintain for the duration of the contract Cyber Essentials or Cyber Essentials Plus, or equivalent.
	Information Security	Suppliers may need to be able to demonstrate experience in managing classified information (as defined in the Anti-Terrorism, Crime and Security Act 2001) The Energy Act 2013 and the Nuclear Industries Security Regulation (NISR) 2003) or Special Nuclear Information (SNI).
	UK General Data Protection Regulations (GDPR) Compliance	All suppliers will be required to demonstrate that it manages and processes personal data in compliance with the UK GDPR.
	Security of Personnel	For some of our contracts, Suppliers will require their personnel to hold Baseline Personnel Security Standards (BPSS) checks. Further requirements may require Security Clearance and / or Developed Vetting checks.

PSQ – Ethical Sourcing and Human Rights

- Suppliers will be required to demonstrate their awareness of and commitment to tackling Modern Slavery risks and their compliance with the Modern Slavery Act 2015 and associated guidance
- For Suppliers which have a turnover of £36million per annum or more, they will be required to submit a Modern Slavery Statement to conform their compliance
- For Contracts which will require the provision of goods, GBE-N may test supplier's approach to detection and prevention of Counterfeit Fraud and Suspected Items (CSFI) ; material certification; product traceability



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PSQ – Environmental Sustainability

For contracts of a value of over £5million suppliers will be required to:

- Submit their most recent Carbon Reduction plan;
- Confirm the steps their organisation is taking to reduce CHC Emissions over time and is publicly committed to achieving net zero by 2050; and
- Complete a Supplier Emissions Declaration



PSQ – GBE-N Specific

- **Scored questions – these may be designed to set minimum scores are achieved to proceed to the next phase**
- Topics will be designed on a case-by-case basis depending on the nature of the goods / works / services being procured.

Topics may include: Proven Capability and Experience in areas such as:

- | | | |
|---|---|---|
| • Document / Records Control | • Quality Management | • Corporate and professional standards e.g. |
| • Design approach | • Working in collaborative environments | • Whistleblowing |
| • Resource Management and Skills investment | • Risk Management | • Gender Pay Gap |
| • Supply Chain Management | | • Prevention of Sexual Harassment |
| • Export Controls | | |



Future State: Standardisation of PSQ across the Nuclear Industry

GBE-N is working with cross industry client organisations to agree a standardised pre-qualification question set.

Benefits are thought to be :

- Ensuring consistency of requirements
- Reducing barriers to entry
- Reducing burden on suppliers and clients

We aim to agree these and roll these out for use during the next financial year.



FUTURE MARKET ENGAGEMENT EVENTS

Chain Reaction Webinar: Owner's Scope 24th Feb 2026

SME Supply Chain intro to nuclear Spring 2026

Owner's Scope Market Engagement Spring 2026

Thank you.

Great British Energy - Nuclear

Department For Energy Security & Net Zero
3-8 Whitehall Place
SW1A 2EG
London, United Kingdom

 GBNgovuk

 great-british-energy-nuclear



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Department For Energy Security & Net Zero
3-8 Whitehall Place
SW1A 2EG
London, United Kingdom

 GBNgovuk

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