UK Atomic Energy Authority

Fusion Futures Industry Capability Impact Report

FY25/26

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Introduction

Report Purpose

The Fusion Futures Industry Capability Programme Annual Impact Report (AIR) **covers the period from April 2025 to March 2026**. Its purpose is to give stakeholders a clear and comprehensive view of progress, demonstrating how the programme has delivered against the key benefits, objectives, and performance commitments.

Statement from our SRO, Steve Wheeler, Executive Director, UKAEA

The Fusion Futures Industry Capability Programme is an investment to develop the capability within the UK supply chain to prepare for future opportunities with international fusion programmes and developers. The second year of this programme has seen a six-fold increase in UK SME engagement, and we have worked with 62 additional suppliers. The opportunities for UK businesses from the international community continue to grow and this programme has enabled businesses large and small to develop their competitiveness for fusion business.

Fusion Futures Industry Capability Programme Key Achievements in FY25/26:

- **£14.9M** committed in industry.
- **80%** of total spend for Direct Industry Stimulus was delivered by supply chain.
- **215** contracts placed.
- **110+** external organisations engaged (supply chain and host organisations).
- Developed and distributed a “Global Fusion Guide for SMEs” providing insight of fusion short-term key focuses for fusion power plant developers.
- Provided suppliers with non-financial additional support to help maximise opportunities in the global fusion market.

Programme Background

Fusion Futures Programme is UKAEA’s innovative fusion programme designed to strategically replace our previous membership in the Euratom Research and Training framework.

Fusion Futures Programme encompasses three key sub-programmes, **LIBRTI** – Lithium Breeding Tritium Innovation programme, **IRIS** – International, Research, Investment and Skills and the **Fusion Futures Industry Capability Programme** – Industrial capacity and capability development that secures economic value in the UK. This report focusses on the last sub-programme described above.

The **Fusion Futures Industry Capability Programme** primary objective is to stimulate and sustain the growth of fusion supply chain capabilities and capacities within UK industry. Growing industry capability within the supply chain presents a transformative economic opportunity, driven by strategically placed public sector funding that stimulates private sector growth. The programme is made up of 4 workstreams, Direct Industry Stimulus, Secondments, Securing Inward Investment and International Industrial Collaborations, however this report will focus on the Direct Industry Stimulus workstream.

In 24/25, the first year of the Fusion Futures Industry Capability programme was successful in achieving the ambition to contract at least 75% of technical project activities to industry and launched multiple secondments with key international partners. To find out more, **The Fusion Futures Industry Capability End of Year Impact Report 2024/25 can be viewed here***.

In 25/26, Year 2 of the Fusion Futures Industry Capability programme built on the success of Year 1 by continuing with the Direct Industry Stimulus workstream to focus on building industrial capability and capacity by identifying significant areas for growth to benefit future fusion power plant developers and facilitating work packages through the supply chain. This report will focus on the key achievements delivered within this workstream.

**If this document is printed, the link to The Fusion Futures Industry Capability End of Year Report 24/25 cannot be accessed. To view, go to the following website fusion-futures-industry-capability-end-of-year-impact-report-fy24-25.pdf*

Fusion Futures Industry Capability Programme Aims & Outcomes

OVERALL FUSION FUTURES INDUSTRY CAPABILITY PROGRAMME GOAL

To create a strong UK industrial sector that leads the world in operationalising and commercialising of fusion energy.

FUSION FUTURES INDUSTRY CAPABILITY PROGRAMME WORKSTREAMS

Direct Industry Stimulus (DIS)	Secondments	Securing Inward Investments	International Industrial Collaborations
Facilitating work packages into industry to develop capacity and capability. Achieved by supporting the development of high-level capabilities which the UK industry will need to deploy at scale in order for fusion power plants to be developed, built, operated and exported around the world.	Secondments from UKAEA to a third-party fusion relevant organisation on scientific research and or design and development activities. Placements from UKAEA to a third-party fusion relevant organisation on operations activities. Achieved by supporting the UK to continue developing world class fusion operation capability.	Develop scope for facilities, including early design activities and engagement with market/end users, thus developing a proposal for funding decision on continued delivery and value proposition.	Develop collaborations (scope, terms) enabling UK industry to participate in programmes with scale and complexity, with some initial activity mobilised within year.

FUSION FUTURES INDUSTRY CAPABILITY PROGRAMME OBJECTIVES

PROGRAMME OBJECTIVES AS DEFINED IN THE FBC LITE	YEAR 2 ACHIEVEMENTS	CUMULATIVE ACHIEVEMENTS
Stimulating industry capacity growth through access to work packages, ensuring companies are of sufficient size to support future fusion power plant development.	• **£14.9M** committed in industry (DIS). • 215 contracts building capacity in fusion requirements. • Introduced new IP terms to provide advantages to industry. • Increase to **43%** of contracts placed with SMEs thanks to utilisation of R&D pathway mechanism.	• This programme has provided UK companies access to a range of projects covering six technical themes highlighted as important for future fusion power plant development. Through the different work packages a **total of £24.3M** has been committed in industry, helping to grow capacity and support sustainability.
Prompting industry capability growth in areas which have been identified as significant for future fusion power plant development, through work packages including workforce upskilling.	• 28 technical projects, supporting UK industry in advancing TRL • 2 test rigs & 1 virtual control room will soon be available for use to supply chain.	The programme has engaged with 154 suppliers across both years enabling them to further develop their capability. The programme has also contracted 31 new suppliers who had no or limited previous experience working in fusion.
Engaging the private sector, from emerging SMEs through to mid-level players, to stimulate innovation and unlock investment in the fusion industry.	• **43%** of industry spend was placed with 48 individual SMEs.	Collectively, among the engaged suppliers, 31 were new entrants to the fusion sector, of which 24 are SME's.

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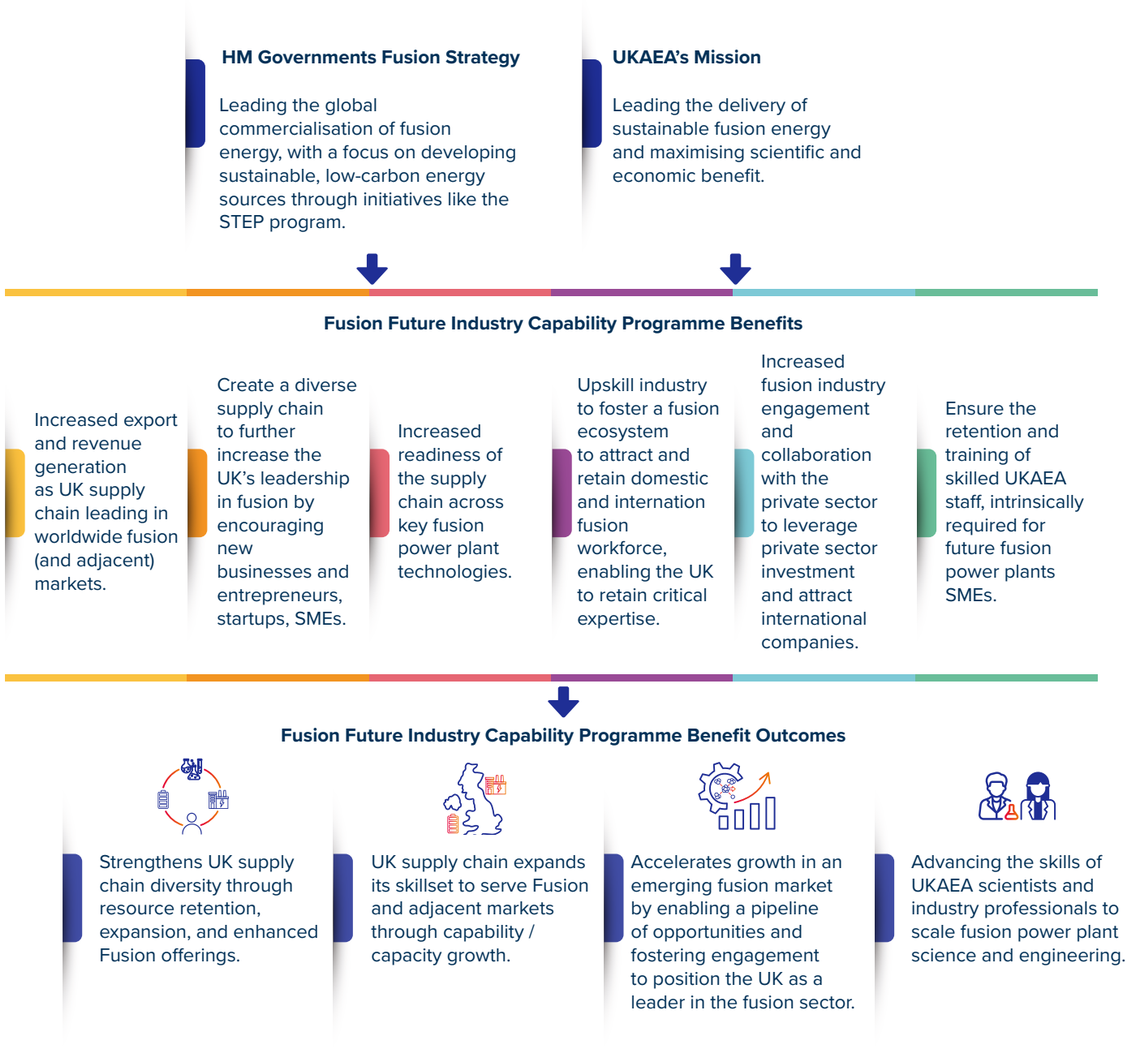
Benefits & Outcomes

Consistent with the approach established in Year 1, the Fusion Futures Industry Capability Programme continued to align its benefits framework with HM Government's fusion strategy and UKAEA's mission. The programme directly supports the growth of the UK fusion industry by enabling innovation and the development of technologies required to make the production and commercialisation of fusion energy viable, more efficient, and of increasing strategic value to the UK.

The diagram below illustrates how these national missions' cascade into programme level benefits, and how those benefits are realised through the outcomes delivered this year. These outcomes have been achieved through a series of targeted work packages undertaken by organisations across the fusion supply chain, building both capability and capacity for the sector. The benefit outcomes are demonstrated throughout this report via success stories and case studies.



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Direct Industry Stimulus Workstream

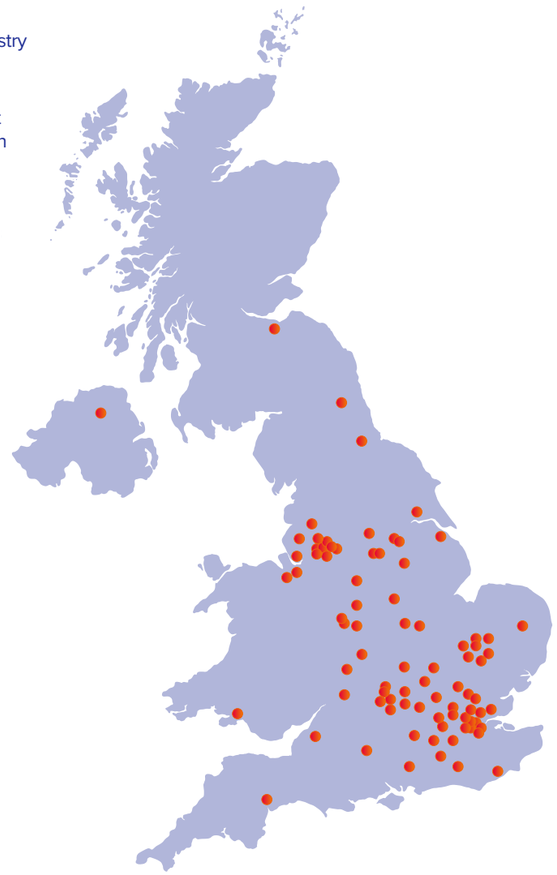
In FY25/26, the Direct Industry Stimulus (DIS) workstream built upon the foundations established in Year 1, with several industry in-kind projects evolving into more strategic deliverables, while others have commenced from a standing start. The key achievements for the year are outlined below, accompanied by a graphical overview of the supply chain locations. This is followed by a series of success stories highlighting the benefit delivered. A detailed list of projects funded in Year 2, benefits achieved in numbers, along with an extract of the suppliers involved, is provided in the Annex of this report.

Year 1 was about standing up the workstream, getting projects started and engaging with the supply chain. Our second year built on this success, focussing on the key technical themes and adopting a more strategic approach. Using different routes to market has enabled us to dramatically increase the number of SMEs engaged with the programme some of which are new to fusion. The In-situ Repair & Inspection project is a great example of this, engaging 4 different SMEs - see the success story on page 7 – **David Clapton, Programme Manager.**

£14.9M awarded to industry

80% of technical content delivered by supply chain vs target of 75%

£6.4M awarded to SMEs



28 Technical projects delivered

6 Technical themes

Projects per theme:

- **30%** Remote Handling
- **21%** Tritium Fuel Cycle
- **18%** Underpinning Technologies
- **15%** Plasma Measurement & Control
- **13%** Liquid Metals
- **3%** Magnet Technologies

215 individual contracts

90 companies contracted (inc. 11 new companies to UKAEA)

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Direct Industry Stimulus Success Stories

PROJECT: In-situ Repair & Inspection systems of in-vessel Fusion components

THEME: Remote Handling

BENEFIT OUTCOMES: Strengthens UK supply chain diversity through enhanced fusion offering. UK supply chain expands it skillset to serve fusion.

CHALLENGE: Undertaking repairs to fusion reactor vessels is a significant known challenge. To date most of the experience and technology has been held by national laboratories with little experience in the supply chain. In addition, advanced technologies which may be used for in-situ repairs have been emerging through specialist companies and organisations.

SOLUTION: UKAEA designed and delivered a project to identify and assess the optimal technologies for carrying out in-situ repairs. The choice of these technologies will influence power plant designs and therefore not just a requirement for maintenance. Following a market analysis, 4 repair technologies and 2 inspection technologies were identified, and work was commissioned to develop them.

LEGACY: Not only do we now have research associated with several technologies, but the work also led to significant collaborations being initiated between repair and inspection specialist SME companies as well as reputable organisations such as the Henry Royce Institute. They initiated the creation of NDA's between their organisations, proposed using the same trials to work together, and developed solutions which have wider applications beyond fusion e.g. the repair and inspections of specialist materials.

SUPPLIER HIGHLIGHTS: All of the companies involved retain the IP developed with UKAEA having a non-exclusive licence to use them. One supplier enhanced their inspection hardware as a direct result allowing greater offerings to the wider market. UKAEA have witnessed both the growth and confidence increase in these specialist micro-SMEs.

PROJECT: Materials Qualification

THEME: Underpinning Technologies

BENEFIT OUTCOMES: Accelerates growth in an emerging fusion market by enabling a pipeline of opportunities.

CHALLENGE: Materials qualification in representative hostile environments is essential for building fusion power plants and pushing the known limits of materials, yet commercial testing equipment currently cannot test materials at extreme temperatures under vacuum. Addressing this limitation would bridge a critical technology gap in materials testing and qualification across multiple industries, including fusion, fission, space, defence, aerospace, and additive manufacture.

SOLUTION: UKAEA mobilised world leading experts, Severn Thermal Solutions, to develop commercial products that enable materials testing within representative environment.

LEGACY: Established UK industry-owned solutions to a key bottleneck in fusion (and wider industry) materials testing and qualification.

TECHNICAL HIGHLIGHTS: Highly novel induction and direct-resistance heating solutions deliver advanced mechanical testing capabilities with integrated diagnostics. The modular and adaptable designs are industry ready.

SUPPLIER HIGHLIGHTS: Severn Thermal Solutions owns the design IP, enabling deployment across multiple clients and helping build an industrial ecosystem for materials qualification. A technology demonstrator will soon be installed in an industry testing centre to maximise visibility of this novel technology.

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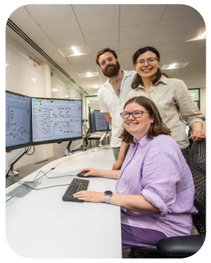

PROJECT: Virtual Control Room

THEME: Tritium Fuel Cycle

BENEFIT OUTCOMES: UK supply chain expands its skillset to serve Fusion. Fosters engagement to position the UK as a leader in the fusion sector.

CHALLENGE: The fusion industry faces a significant shortage of operations staff and EC&I engineers with knowledge and experience of tritium. To date there has been no industry standard approach to modelling and developing an integrated tritium plant control system validated with data from fusion facility tritium operations.

SOLUTION: UKAEA worked with Bilfinger UK, through their operations in Chesterfield and Haydock in the North of England, to develop and build a virtual control room for a fusion facility tritium plant. Using the capability, operators and technicians can practise operating, modifying and maintaining a tritium control system, in a safe, simulated environment.

LEGACY: UKAEA and Bilfinger UK are using the virtual control room as a demonstrator and already have interest from other UK companies in the nuclear supply chain. The process of developing the simulator created the opportunity for Bilfinger's EC&I engineers to gain fusion-relevant design and modelling experience, while allowing UKAEA EC&I teams access to their industry standard approaches

TECHNICAL HIGHLIGHTS: To build a virtual control room for a tritium plant, there are 2 key parts of the system. Firstly, models of the tritium processes need to be developed and validated. Secondly, industrial control systems need to be programmed to drive the model. Coupling these independent software systems is complex.

SUPPLIER HIGHLIGHTS: Virtual control rooms have been used in other sectors as a means of demonstrating new designs. This unique capability was built by a UK based company and led to investment in fusion in the north of England, as well as significant knowledge, skills and experience enhancements in a UK supplier.

PROJECT: Fusionics components development

THEME: Plasma Measurement & Control

BENEFIT OUTCOMES: Accelerates growth in an emerging fusion markets. UK supply chain expands its skillset to serve fusion.

CHALLENGE: Fusion power plants demand control performance beyond today's industrial automation. Research systems deliver speed and precision — but lack the resilience, robustness, and supply chain depth required for commercial deployment. This gap is both a strategic risk and a major industrial opportunity.

SOLUTION: UKAEA, in partnership with Cosylab, established Fusionics — a new, fusion-focused supply chain framework. The programme delivered the technical foundations for real-time networking, advanced signal processing, and integrated control within a future-ready architecture. A clear business case and market roadmap have been developed to mobilise suppliers and attract customers.

LEGACY: Fusionics is now positioned on the international stage — presented at leading technical conferences and pitching to investors at FusionX Munich. Solutions are being demonstrated live on MAST-U at Culham. The programme is accelerating knowledge transfer and building capability in high-value, transferable domains including software engineering, cybersecurity, FPGA systems, and AI/ML.

TECHNICAL HIGHLIGHTS: Model-based, high-performance control architectures. NIMBUS: a flexible, next-generation signal processing platform. Deterministic, real-time networking for distributed control.

SUPPLIER HIGHLIGHTS: Clarified understanding of fusion power plant needs and strategic market opportunities. Upskilling in fusion relevant software frameworks and methods. Knowledge and experience of deep integration needs for fusion power plant.

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PROJECT: AI for risk mitigation in protection & control systems

THEME: Plasma Measurement & Control

BENEFIT OUTCOMES: Accelerates growth in an emerging fusion markets. UK supply chain expands its skillset to serve fusion.

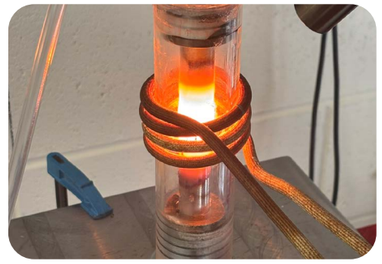
CHALLENGE: Instabilities in fusion plasmas create operational risks ranging from decreased efficiency to machine damage. The risks can be mitigated if control systems can act quickly enough.

SOLUTION: Use of AI and ML (Machine Learning) can identify precursor events such as tearing modes. To be robust and resilient, techniques for optimising AI models were studied. To make solutions practical for operations, the models have been embedded in data processing pipelines.

LEGACY: Innovation using state of the art AI/ML methods inspired from other sectors (including medical/computer vision) has increased capability to leverage fusion data sets. Engagement between AI specialists and fusion domain experts has helped to focus development on operationally relevant solutions.

TECHNICAL HIGHLIGHTS: Integrating fusion analytical applications with modern AI/ML workflows. Application of methods to meaningful real-world data from leading US and UK fusion devices.

SUPPLIER HIGHLIGHTS: Working with UKAEA has allowed Amentum to create links to experts in US and South Korea. Early career staff have boosted their technical skills and delivered significant value to the growing fusion economy.



PROJECT: Bonding of reduced activation Oxide Dispersion Strengthened (ODS) Steel Using Metallic Interlayers

THEME: Underpinning Technologies

BENEFIT OUTCOMES: UK supply chain expands its skillsets in adjacent markets and fusion.

CHALLENGE: ODS Steel is an extremely attractive option for use in fusion due it is high temperature mechanical properties, resistance to radiation damage and reduced radiation activation. Making components with ODS steels as well as joining those components is a challenge and has not been done with shapes with very complex internal cooling features.

SOLUTION: UKAEA commissioned two pieces of work: one to produce very complex shapes and the second to investigate joining techniques to bond these complex geometries together. This was done with a SME specialist in a particular high technology readiness HIPing technique with sacrificial inserts. They also engaged their specialist subcontractors and their relationship with the Royce Institute to produce world leading developments in this field.

LEGACY: The project has already delivered complex geometries using ODS and is now moving onto fusion grade ODS. It has also demonstrated promising joining techniques which are now being optimised.

TECHNICAL HIGHLIGHTS: The production of very complex near-net shaped components using this technique with ODS steel is a world first, driven by UKAEA's materials knowledge and the suppliers manufacturing and subject expertise.

SUPPLIER HIGHLIGHTS: The supplier has created a regional collaboration with several specialist subcontractors, based in Sheffield, and owns the process and technique-based IP which they can leverage, with UKAEA having a non-exclusive licence to use going forward.

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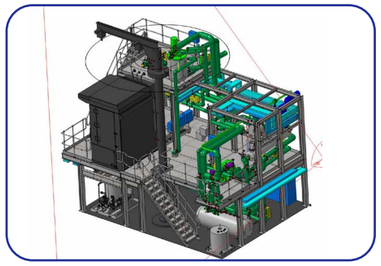


PROJECT: Development of Liquid Metal capability in UK industry

THEME: Liquid Metal

BENEFIT OUTCOMES: Accelerates growth in an emerging fusion market by enabling a pipeline of opportunities. UK supply chain expands its skillset to serve fusion.

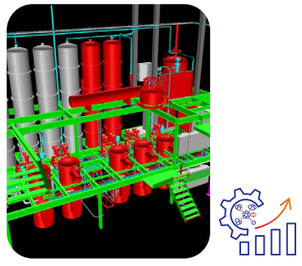
CHALLENGE: To create commercially viable fusion power plants a technology called breeder blankets is required to generate the tritium fuel that the plant consumes. Up to now this has only been carried out in national laboratories so there is little or no experience in the UK supply chain of designing systems capable of testing breeder blanket technologies.

SOLUTION: UKAEA commissioned the detailed design of a liquid metal loop capable of operating at the relevant temperatures and within the specified magnetic fields that breeder blankets will be subject to. A collaboration of a leading UK engineering consultancy and two UK specialist manufacturers were engaged to deliver this solution.

LEGACY: A commercial partnership has been created that takes existing UK engineering expertise and enhances it through exposure to fusion sector specific requirements as well as bringing external expertise into fusion.

TECHNICAL HIGHLIGHTS: Until this project, no one in the UK had designed a loop that has to meet the demanding requirements of so many differing design codes. The liquids involved operate at high temperature, are highly corrosive and toxic, 8x denser than water and explosive.

SUPPLIER HIGHLIGHTS: The UK supply chain selected produced a design that meets these standards, in a very short space of time, by building a strong collaborative approach between their organisations and UKAEA. They seamlessly adopted and complied with current UKAEA technical controls and standards which are likely to shape future fusion specific standards and significantly enhance their prospects of winning fusion related work in the future.



PROJECT: Redevelop of JET AGHS

THEME: Tritium Fuel Cycle

BENEFIT OUTCOMES: Strengthens UK supply chain diversity through resource retention. UK supply chain expands its skillset to serve Fusion.

CHALLENGE: To obtain a licence to operate a fusion power plant, decommissioning plans will need to be submitted. This will include the decommissioning of fusion waste contaminated with tritium. The JET tritium plant is a globally unique tritium facility, offering a unique opportunity to gain knowledge in tritium system design, operations, decontamination and decommissioning. There is a severe shortage of global tritium research space, which is slowing progress in developing the fuel cycles needed for tritium-using fusion power plants.

SOLUTION: UKAEA worked with UK suppliers (Amentum, AtkinsRealis, Energus, Optima Systems Consultancy, Offset and M5Tec), to progress decommissioning of old tritium contaminated assets, and design a revitalised space available for future tritium research. The project involved the largest, most contaminated and space occupying assets, to maximise the knowledge and space for future users gained.

LEGACY: In undertaking the project 95% of the work was completed by teams external to UKAEA. Multiple disciplines were involved in developing expertise in tritium waste management and facility design. This included EC&I, Systems, Mechanical and Process Engineers, as well as Nuclear, Health Physics, Safety and Radiological Protection specialists. The team incorporated a mix of experienced staff as well as graduates to ensure the knowledge gained was spread across the workforce. A joint paper was presented at the Arizona Waste Management Symposium, sharing findings and recommendations for future fusion facility design with the wider fusion industry.

TECHNICAL HIGHLIGHTS: The project was delivered successfully removing an old large contaminated asset and freeing up space at UKAEA's Culham facility to invest in new tritium related works.

Industry Engagement at the Heart of the Programme

A revised industry engagement strategy was implemented for Year 2, focusing on the **key priorities of the supply chain: certainty, a clear pipeline of opportunities, technologies that enable growth, intellectual property, and reputation**. These priorities, along with outputs generated by the programme during the year, were validated through regular industry meetings attended by representatives from both small and large companies. These sessions provided valuable insights into what stakeholders considered important, areas of confusion or uncertainty within the emerging global fusion market, and the types of support required to address these challenges.

This resulted in new activities focussed around 4 key engagement themes:

- Shaping the scope of project development
- Shape the UK supply chain for fusion
- Prepare the UK supply chain for global fusion opportunities
- Reputation: Engagement and Promotion

Key highlights delivered by the revised strategy:

- Global market demand analysis completed and used to shape the scope of the Direct Industry Stimulus projects.
- A much broader selection of revised Intellectual Property terms offered to industry within projects.
- A simplified and revised commercial model to assist SMEs in bidding for UKAEA work.
- Success stories produced promoting capability of UK Suppliers in the global fusion market.
- Additional non-financial support offered to UK suppliers on the programme, beyond the technical scope, to help them win work in the global fusion market.
- "Global Fusion Guide for SMEs" produced as a direct response to industry request, including best routes to market.
- Business Breakfast Meetings held with representatives of industry from small to large organisations. These were used to shape the engagement strategy and deliverables, including the creation of the Global Fusion Guide for SMEs.

Conclusion and Future Direction

As demonstrated throughout this report, Fusion Futures Industry Capability has played a pivotal role in developing the capability and capacity of the UK supply chain for future fusion programmes. It directly contributes to the UK's position as world leader in fusion and reflecting the industrial shift now underway across the sector.

Over the last financial year, the programme has deepened industry engagement, expanded national capability across critical fusion technologies and strengthened the UK's readiness to support the operationalisation and commercialisation of fusion energy. With more than £24.3M invested, an increasing number of SMEs involved and international partners, the programme has not only contributed to accelerate technological readiness but also cultivated the skilled workforce and industry ecosystem required for future fusion power plant deployment.

Although the programme will not continue in its current form in future years, UKAEA Group's programmes and initiatives, including STEP Fusion Energy, will continue to push for the development of the UK supply chain in alignment with UKAEA's mission.

The progress achieved this year provides a strong foundation for the next phase of the national fusion ambition, positioning the UK to attract inward investment, unlock innovation, and maintain global leadership in delivering sustainable, commercially viable fusion energy.

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Annex 1: List of projects funded in Year 2 under Direct Industry Stimulus

THEME	PROJECT LIST
Fuel Cycle	Small Scale tritium system components
Fuel Cycle	Redevelop the JET AGHS
Fuel Cycle	DELPHI
Fuel Cycle	Tritium Plant Virtual Control Room
Remote Handling	Fusion Pipe Maintenance E2E
Remote Handling	Fusion Oriented Robotics Technology (FORT)
Remote Handling	Repair system of in-service and in-vessel fusion components
Plasma Heating, Measurement & Control	Fusionics components development
Plasma Heating, Measurement & Control	AI for Risk Mitigation in Control & Protection Systems
Liquid Metals	PbLi Facility modelling and validation by testing in CHIMERA
Liquid Metals	Development of Liquid Metal Capability in UK Industry to Accelerate Fusion Delivery
Liquid Metals	PbLi Tritium Capability Upgrade with model validation
Underpinning Technologies	Materials Qualification
Plasma Heating, Measurement & Control	Microwave Launcher - Integrated simulation workflow
Magnet Technologies	HTS Tape characterisation
Magnet Technologies	HTS Tape Windings - Planar to non-planar
Plasma Heating, Measurement & Control	Market Survey and Manufacturing Opportunities of a 28GHz Gyrotron
Underpinning Technologies	Techno-economic assessments of Li-6 enrichment technology commercialisation
Underpinning Technologies	Flash-Assisted Affixing of SiC Together-2
Underpinning Technologies	iCOATfibres-2
Underpinning Technologies	Slurry or sol gel-based coatings for complex geometries
Underpinning Technologies	Thermally stable multilayer coatings
Underpinning Technologies	Bonding of reduced activation ODS Steel Using Metallic Interlayers
Underpinning Technologies	Developing a UK based Oxide Dispersion Strengthened (ODS) steel supply chain
Plasma Heating, Measurement & Control	HCD Digital Twin
Remote Handling	Inspection systems for in-vessel fusion components
Underpinning Technologies	Developing industry capability in manufacturing first wall systems
Underpinning Technologies	The Development of Silicon Carbide Structures within a Breeder Blanket
Magnet Technologies	HTS winding demonstrator

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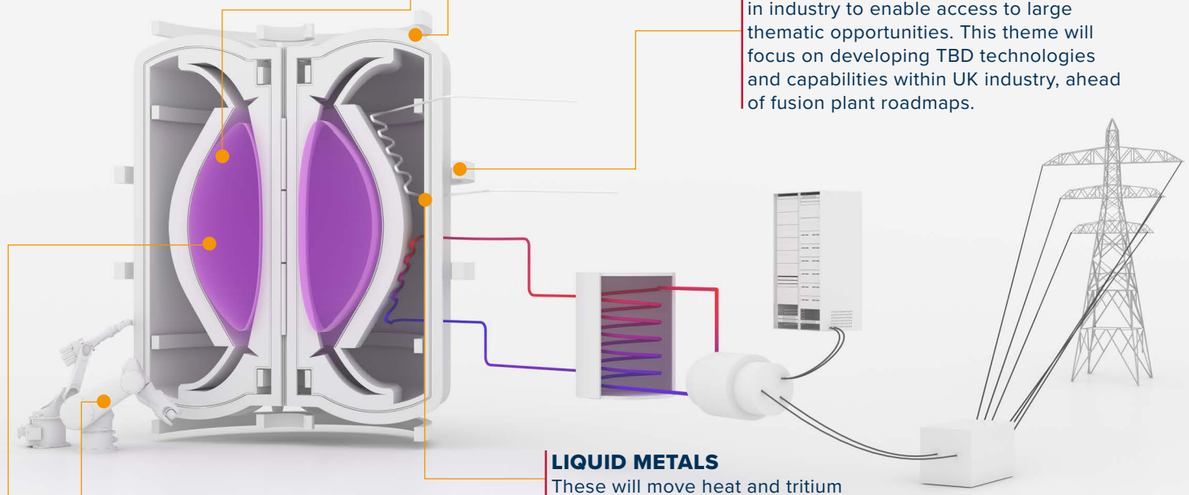
Annex 2:
Direct Industry Stimulus Technical Themes

FUEL CYCLE
The majority of fusion power plants will use tritium but radiological challenges of handling treaty and present barriers for industry. The proposed focus is on development of industry access to radio logically active test facilities and experts, alongside development of key components, to enable development of design and build services by UK industry.

MAGNET TECHNOLOGIES
High-temperature superconducting magnets are core technology across all magnetic confinement fusion devices. This theme is at the early stages of scoping, with the aim of supporting development of a full UK supply chain for fusion magnets, and associated subsystems, maturing in time for fusion plant roadmaps.

UNDERPINNING TECHNOLOGIES
There is a wide range of underpinning technologies that need development in industry to enable access to large thematic opportunities. This theme will focus on developing TBD technologies and capabilities within UK industry, ahead of fusion plant roadmaps.



LIQUID METALS
These will move heat and tritium fuel from the core of the reactor to extraction systems. The proposed focus is on development of computational design tools, along with a prototype lithium lead liquid metal loop, to enable industry simulation to development and validation, alongside prototype components testing.

REMOTE HANDLING
Development of remote handling is required to inform “design for maintenance” of fusion power plants. The proposed focus is an industry development towards a full radiation hide and robotics system, remote cutting and welding systems, and remote repair inspection systems, to demonstrate a level.

PLASMA MEASUREMENT & CONTROL
Integration of technologies across advanced measurement, diagnostics and the all-time control technologies is required to confine and optimise the fusion plasma. The proposed focus is to leverage UKAEA’s vast experience from JET to develop industry capability relevant to all plasma fusion power plant concepts.

Annex 3:
Extracts of Suppliers Used in Year 2 for Direct Industry Stimulus

amentum
Zwick / Roell
acantecs
AtkinsRéalis
severn thermal solutions
GENCOA
CPE
COSYLAB
MAGICS
RED Engineering
Tokamak Energy
PyrOptik
IDOM
LTi VESSCO
LAS Laser Additive Solutions
tesla ENGINEERING LTD
senior Aerospace
m5tec
FRAZER-NASH CONSULTANCY A KBR COMPANY
Kurt J. Lesker Company
LUCIDEON
MBRAUN
VEOLIA
Radtest Ltd
ICE High Performance Cryogenic Systems
StirLight
WIRE ARC ADDITIVE MANUFACTURING
OXFORD SIGMA
digiLab

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