

UK MANIFESTO

BRINGING FUSION TO THE GRID

The UK is a world leader in Fusion Energy - a source of potentially unlimited strategically secure and affordable, low-carbon energy.

Once commercialised, Fusion is perhaps the ultimate energy source: zero carbon at the point of generation, energy dense, and with abundant fuels. Fusion is not only easily fuelled, but also has no possibility of a runaway reaction, and no high-level waste or used fuel.

Commercial fusion is coming, as the G7 has recognised. The global race for commercial fusion is on, with companies aiming to deliver commercial plants through the coming years – making large-scale deployment through the 2030s and 2040s a real prospect.

The fusion industry could be worth £billions to the economy in the coming decades – and offers a British export to overcome global climate change. This will only be possible if we stimulate private investment, alongside public programmes, to develop, operate and own fusion technology across the value chain.

The UK has for 40 years hosted JET, the world's leading fusion test machine, and is now deploying STEP, a revolutionary public-private collaboration to demonstrate commercially viable fusion. It is also the host of two leading UK-based companies developing fusion plants, while attracting many more to partner UK organisations.

There are a number of fusion technologies in development,

giving multiple shots-on-goal, and stimulating spin-out innovation as we progress. Moreover, the UK has a leading delivery ecosystem, with world-class research and technical centres, as well as policy readiness to regulate and consent fusion power plants.

All the while, the private supply chain grows, with more than \$7Bn invested in private fusion developers across the last decade - including substantial investment to the UK-based private developers, creating hundreds of new jobs.

We call on all incoming MPs and Government to:

1. Visit the UK's public and private Fusion facilities, and see that we are ready to deliver.
2. Sustain support for: the STEP programme, wider UKAEA research activities, and progression of other fusion technologies towards first plants.
3. Progress the UK Atomic Energy Authority's work supporting skills and driving growth in innovative private industry in the UK.
4. Continue and deepen support for international and multilateral cooperation to accelerate the deployment of fusion energy.
5. Continue supporting measures to stimulate private fusion investment.
6. Continue developing the planning measure, National Policy Statement EN-8.
7. Begin to develop, with industry, an energy market framework which is ready to adopt private fusion powerplants.

CONTACT



Tristram Denton, UK Director, FIA
Tristram@FusionIndustryAssociation.org



Valerie Jamieson, Manager, The Fusion Cluster
valerie.jamieson@ukaea.uk

About Fusion Industry Association

The Fusion Industry Association (FIA) is the voice of the global fusion industry. The FIA is a membership association that advocates for policies that support commercially viable fusion power. Its members are the investor-backed fusion developers, and its 90+ affiliate members are the companies and organizations that are building the global fusion energy economy.

About The Fusion Cluster

The Fusion Cluster brings together businesses, academia, investors and government agencies to get to fusion faster. Since it was established in October 2021, it has grown from a handful of companies to more than 200 organisations working in fusion energy. The Fusion Cluster is funded by the UK Atomic Energy Authority.