

Press Release

Wednesday May 11, 2022



Princess Astrid of Belgium talks fusion energy at UKAEA

Her Royal Highness Princess Astrid of Belgium discovered how fusion energy could play a key role in addressing climate change following a tour of the UK Atomic Energy Authority's world-leading science centre in Oxford.

Representative of His Majesty the King, The Princess was today able to experience a rare close-up of the Joint European Torus (JET), the largest and most powerful operating fusion energy machine in the world.

There were 12 Belgian scientists directly involved in the record-breaking fusion energy results announced earlier this year.

The tour was arranged as part of the Belgian Economic Mission, the first of its kind since Brexit and the pandemic, and raised the importance of fusion energy in delivering an environmentally responsible future energy supply.

Ian Chapman, CEO, UKAEA, said: "It was an honour to discuss the benefits of fusion energy with Her Royal Highness and the delegation from the Belgian Economic Mission. Belgium is an important partner in the global mission to achieve commercial fusion power and in ensuring the world has access to a safe, sustainable and low carbon energy supply."

Twenty-six representatives from the Belgian delegation covering officials, government, industry, academia and press, toured Culham Science Centre, including: Tinne Van Der Straeten, Minister of Energy, Willy BORSUS, Vice-President of the Walloon Government, Ambassador Dirk WOUTERS, Advisor to Her Royal Highness Princess Astrid, and Bruno Van Der Pluijm, Ambassador of Belgium to the United Kingdom.

Belgium is part of the EUROfusion consortium that runs experiments using JET at UKAEA's world-leading Culham Science Centre.

Sara Moradi, Interim Head of the Fusion Science Department, EUROfusion, said: "It is good to see growing interest in fusion in my adopted country. Currently Belgium contributes to the EUROfusion programme both generally and specifically within the fields of ion cyclotron resonance heating in the JET and Wendelstein 7-X devices at ERM/KMS, and material research at SCK CEN."

The ground-breaking research being done at UKAEA with partners across the globe represents a huge opportunity for the economy.

The UK energy industry invests £13bn annually, delivers nearly £30bn in gross value added on top of the nearly £100bn in economic activity through its supply chain and interaction with other sectors. It supports more than 700,000 jobs across the country.

Belgium ranks highly as a UK foreign trade partner. In 2021, it was the UK's seventh largest client of goods worldwide and sixth largest supplier of goods. The Belgian Economic Mission aims to increase Belgian export to the UK with HRH offering her support.

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Notes to editors

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For further information about the Belgian Economic Mission, visit:

<https://www.belgianeconomicmission.be/>

About Fusion

Fusion research aims to copy the process which powers the sun for a new large-scale source of low carbon energy here on earth.

When light atoms fuse together to form heavier ones, a large amount of energy is released. To do this, a few grams of hydrogen fuels are heated to extreme temperatures, 10 times hotter than the centre of the sun, forming a plasma in which fusion reactions take place. A commercial fusion power station would use the heat produced by fusion reactions to generate electricity.

Fusion has huge potential as a low carbon energy source. It is environmentally responsible and safe, using small amounts of fuel that can be sourced from abundant and sustainable materials.

About UKAEA

The UK Atomic Energy Authority (UKAEA) carries out fusion energy research on behalf of the UK Government. UKAEA oversees the UK's fusion programme, headed by the MAST Upgrade (Mega Amp Spherical Tokamak) experiment. It also hosts the world's largest fusion research facility, JET (Joint European Torus), which it operates for scientists from around Europe.

More information: <https://www.gov.uk/ukaea>. Social Media: @UKAEAofficial

About EUROfusion

EUROfusion is a consortium of [30 research organisations](#), and behind them around 150 affiliated entities including universities and companies, from 25 European Union member states plus the United Kingdom, Switzerland and Ukraine. Together they work towards a facility that can deliver fusion electricity to the power grid in accordance with the [European Research Roadmap to the Realisation of Fusion Energy](#).

The EUROfusion programme has two aims: preparing for ITER experiments and developing concepts for the future European demonstration fusion power plant EU DEMO. Another facet of the EUROfusion programme is to support diverse research projects in participating laboratories through the Enabling Research scheme.

For more information, visit: <https://www.euro-fusion.org/>

