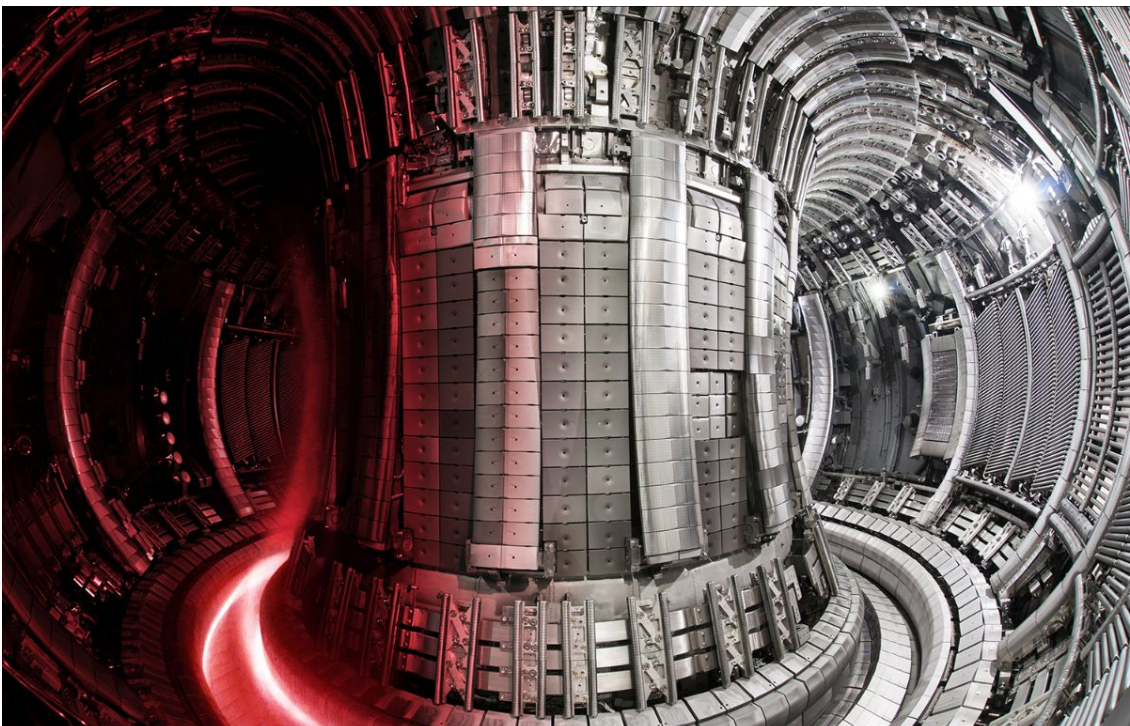




Fusion in Europe is the official newsletter of EUROfusion, the European consortium for the realisation of fusion energy. Every issue, we will bring you the latest news and views on the progress of fusion research in Europe.



Dear Reader,

In this issue of *Fusion in Europe* newsletter we celebrate the landmark fusion experiments by EUROfusion researchers at the JET tokamak (Joint European Torus) in Culham, UK. During these experiments our team demonstrated sustained and high-energy fusion reactions using deuterium-tritium, the fuel mix intended for ITER and beyond.

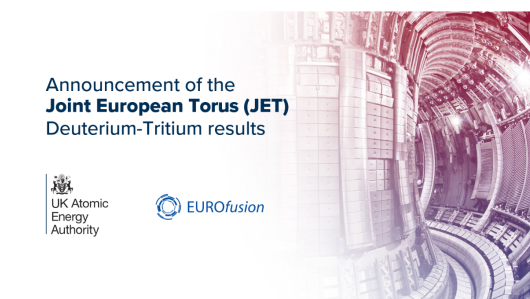
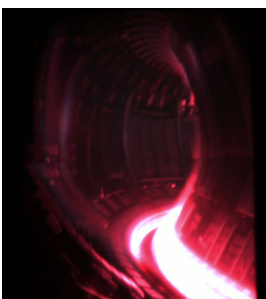
These experiments gave researchers their first glimpse at how fusion processes will behave in future fusion power plants. Sustaining high-energy fusion output led to a wealth of scientific knowledge, as well as setting a new world record for most fusion energy produced in a single shot. That result grabbed the attention of media across the world. Take a look at the stories we produced to highlight this exciting research!

Don't forget to shoot us a message at news@euro-fusion.org if you want to comment, suggest news or send in a question.

This issue of *Fusion in Europe*:

50 megajoules of fusion energy

Landmark results strengthen the case for fusion at the only experimental facility that can already operate with the fuel mix for future fusion power plants.



Press event

Check out the presentation of the JET results on Wednesday 9 February.



"Almost steady state"

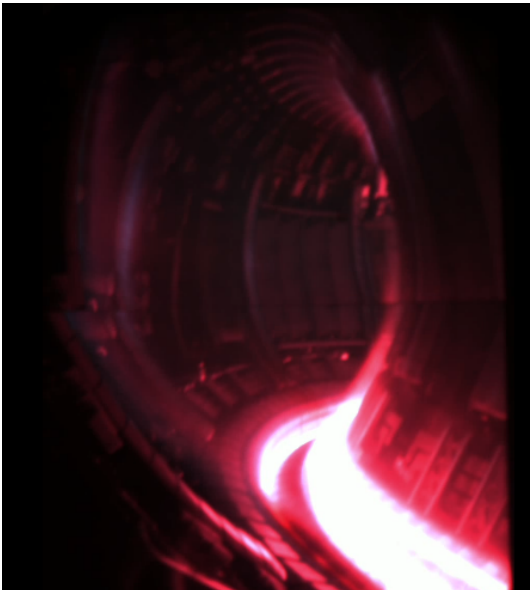
EUROfusion programme manager (CEO) Tony Donn  talks about the world's first-ever sustained, high-energy fusion plasma.



Media coverage

Thousands of publications across the world have covered the news of our successful deuterium-tritium experiments. Here is a brief compilation:

AFP (Press Agency) | Reuters (Press Agency) | El Dia (Argentina) | ABC News (Australia) | Der Standard (Austria) | BDNews24 (Bangladesh) | Het Laatste Nieuws (Belgium) | l'Echo (Belgium) | European Nuclear Society | UOL (Brazil) | 24Chasa (Bulgaria) | CBC (Canada) | La Tercera (Chile) | Hong Kong Herald (China) | QQ (China) | El Tiempo (Colombia) | La Naci n (Costa Rica) | 24Sata (Croatia) | Novinky (Czechia) | Novaator (Estonia) | Helsingin Sanomat (Finland) | Le Monde (France) | Futura Sciences (France) | Deutschlandfunk (Germany) | Der Spiegel (Germany) | Kathimerini (Greece) | Naftemporiki (Greece) | Vecernji (Hungary) | Indian Express (India) | The Hindu (India) | Kompas (Indonesia) | Tasnim (Iran) | The Irish Times (Ireland) | Avvenire (Italy) | RAI News (Italy) | AU One (Japan) | Naver (Korea) | Volksblatt (Liechtenstein) | Lrytas (Lithuania) | El Universal (Mexico) | NOS (Netherlands) | NRC (Netherlands) | New Zealand Times (New Zealand) | VG (Norway) | TVN24 (Poland) | El Mercia (Peru) | Expresso (Portugal) | Publico (Portugal) | Digi24 (Romania) | 3d News (Russia) | Arab News (Saudi Arabia) | Pravda (Slovakia) | Delo (Slovenia) | Tech Central (South Africa) | Agencia Sinc (Spain) | Libertad (Spain) | Dagens Nyheter (Sweden) | SVT (Sweden) | SRF (Switzerland) | Le Temps (Switzerland) | UDN (Taiwan) | TRT Haber (Turkey) | Asharq (UAE) | UKR Inform (Ukraine) | BBC (UK) | the Guardian (UK) | Sky (UK) | CNN (USA) | NBC News (USA) | The World (USA)



Explainer video

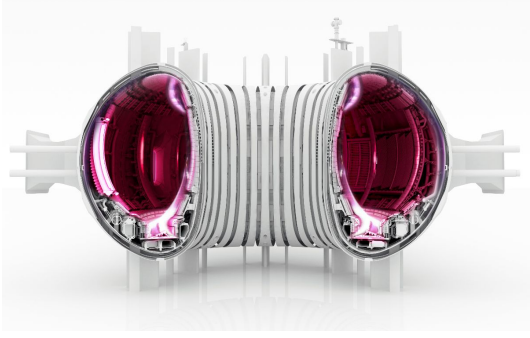
Check out this explainer video about the new results produced by JET's home base UKAEA.

Video: record plasma

On 21 December 2021, JET's 99.971st plasma shot set a new world record for most fusion energy produced in a single shot.

Transferring knowledge

Fernanda Rimini talks about how the knowledge and experience from JET's experiments will be transferred to the next generation of fusion scientists.

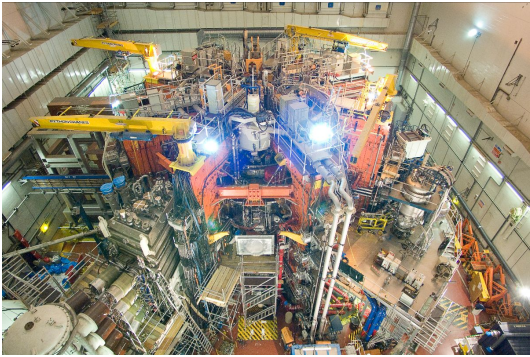
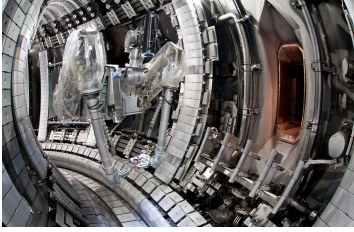


"An honour to be part of this"

In this video by our Spanish EUROfusion member CIEMAT, scientific coordinator Emilia Solano talks about the pleasure of researching fusion at JET. *(In Spanish.)*

Upgrading JET

Over the past years, EUROfusion has upgraded the JET facility to come as close as possible to the technology that will be used in the international ITER experiment. Guy Matthews takes us through the upgrades.



The tritium balance

EUROfusion ran a dedicated experimental campaign studying the fusion fuel component tritium to prepare JET for its record fusion experiments. Jo lle Mailloux explains how a slightly heavier fuel can alter the balance inside the tokamak.

SHARE AND COMMENT

If you have a comment, suggestion for news or question you would like answered, please contact us at news@euro-fusion.org.

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