

West Burton selected as home of STEP fusion plant

- West Burton, North Nottinghamshire, selected as the home of the ambitious STEP fusion energy programme, underpinning an industry expected to be worth billions to the UK economy
- Fusion promises to be a safe, low carbon and sustainable part of the world's energy supply with potential to help sustain net zero in the future

The UK Government has confirmed the West Burton power station site in North Nottinghamshire will be home to the ground-breaking STEP prototype fusion energy plant.

The Spherical Tokamak for Energy Production (STEP) plant will be designed and constructed to demonstrate the ability to put net electricity on the grid. It will also pave the way to enable future commercial fusion energy plants to be commissioned and constructed.

Fusion energy has great potential to deliver safe, sustainable, low carbon energy for generations to come. It is based on the same processes that power the sun and stars.

The Government-backed STEP programme will create thousands of highly skilled jobs during construction and operations, and attract other high-tech industries to the region, furthering the development of science and technology capabilities nationally.

The ambitious programme will also commit immediately to the development of apprenticeship training centres in Nottinghamshire, building on the success of the UK Atomic Energy Authority's (UKAEA) Oxfordshire Advanced Skills centre in Culham, which develops around 180 apprentices from 25 employers every year.

Business & Energy Secretary Jacob Rees-Mogg said:

"Fusion offers unparalleled potential for clean power production, promising a future of inexhaustible energy that could unshackle us from fossil fuels and make us truly self-sufficient and secure.

"Over the decades we have established ourselves as pioneers in fusion science and I am delighted to announce an important step in that mission, replacing the West Burton coal-fired power station with a beacon of bountiful green energy. The plant will be the first of its kind, proving the commercial viability of fusion energy to the world.

"It could be an industry worth billions of pounds to the UK economy, positioning the UK to design, manufacture and export the first fleet of fusion plants, and putting us at the vanguard of a future market."

Professor Ian Chapman, UKAEA Chief Executive, said:

“Selecting the location of the STEP prototype plant is a huge, visible moment in the challenging and long-term endeavour of bringing fusion energy to the grid. West Burton is a natural fit for the STEP programme with a rich industrial heritage now being developed and repurposed for a low carbon future. It really is ‘from fossil fuels to fusion’.

“We look forward to working with people in the region to develop our ambitious plans and realising broader social and economic benefits.”

The West Burton site, which is home to a coal-fired power station owned by EDF, was selected following a rigorous assessment process over almost two years. Fifteen locations were long-listed following an open call for sites in December 2020 and this was reduced to five after assessments in October 2021. The second round of assessments concluded in the spring with UKAEA making its final recommendations to the Secretary of State in May 2022.

Fusion has the potential to provide a near-limitless future source of low carbon energy, complementing other sustainable sources like wind and solar. When a mix of two forms of hydrogen are heated to extreme temperatures – 10 times hotter than the core of the sun – they fuse together to create helium and release huge amounts of energy.

The energy created from fusion can be used to generate electricity in the same way as existing power stations. Fusion is many million times more efficient, per kilogram, than burning coal, oil or gas. The raw materials needed to provide the fuel for fusion are readily available in nature. However, there remains a number of significant technical hurdles to overcome to realise fusion, and the STEP programme aims to address these.

STEP is expected to pave the way to the commercialisation of fusion and the potential development of a fleet of future plants around the world. UKAEA, which carries out fusion energy research on behalf of the UK Government, is targeting first operations in the early 2040s.

The other sites shortlisted to host STEP were Ardeer, North Ayrshire; Moorside, Cumbria; Goole, East Yorkshire; and Severn Edge, Gloucestershire.

[Prime Minister urges Europe to ‘stand firm’ against Russian aggression ahead of regional summit](#)

- Prime Minister to attend European leaders’ meeting in Prague to galvanise the response to Putin’s invasion of Ukraine

- Liz Truss will hold talks on securing UK energy supply and tackling migration, and will encourage allies to end energy dependence on Russia
- UK will play a leading role in the summit to drive international action on national priorities

The Prime Minister will urge leaders to stand united in the face of Russian aggression as Europe faces “its biggest crisis since the Second World War”, when she addresses a regional summit in the Czech Republic today [6th October].

Liz Truss will attend the meeting of leaders from across Europe to shore up support for Ukraine and galvanise collective action on energy security and migration, delivering on UK priorities.

In a series of bilateral meetings and plenary sessions in Prague, the Prime Minister will encourage countries to go further and faster to end Europe’s reliance on Russian hydrocarbons and “usher in a new era of resilience and independence.”

She will call on leaders to commit at the summit to keeping gas and electricity interconnectors open this winter and is expected to hold talks on joint projects to develop new nuclear and offshore wind capacity.

The Prime Minister will also meet key countries on the migration route, including the leaders of France and the Netherlands, to drive progress on joint operations to disrupt criminal gangs profiting from illegal migration.

Prime Minister Liz Truss will tell the opening plenary session in Prague:

Europe is facing its biggest crisis since the Second World War. And we have faced it together with unity and resolve.

We must continue to stand firm – to ensure that Ukraine wins this war, but also to deal with the strategic challenges that it has exposed.

The Prime Minister is expected to set out that the UK has continued to play a leading role in Europe outside the European Union, demonstrated by the response to the invasion of Ukraine.

The UK has forged new defensive alliances through the Joint Expeditionary Force and bolstered regional security as the largest European contributor to NATO. This week, the UK deployed Royal Navy frigate HMS Enterprise to the North Sea to work with Norway on protecting critical national energy infrastructure, following the shocking sabotage on the Nordstream 1 & 2 pipelines.

Speaking at the opening of the summit, the Prime Minister will say we need to:

...learn the lessons of the war. The threat was left to fester for far too long. Now, at last, we are tackling Putin's aggression head on.

And we should take the same approach with other challenges before us – including longstanding regional issues like energy and migration.

Instead of the old approach which merely dealt with the symptoms, it's time to address the fundamental causes.

The European Political Community meeting in Prague is an opportunity for leaders from across the continent, including EU and non-EU states, to work together to address urgent shared challenges.

The Prime Minister is expected address the opening plenary session and attend a working group on energy security, as well as holding a series of bilateral talks and informal meetings with leaders.

Tees Valley Hydrogen Hub boosted by £20 million competition

- government launches £20 million competition for industry to harness the power of hydrogen in new transport projects
- competition aims to clean city air and lower carbon emissions on a wide range of transport from buses to delivery vehicles
- the hub will develop solutions towards using hydrogen in transport, which could create hundreds of jobs, help to decarbonise the nation's transport sector and provide energy security

Tees Valley will host a new £20 million competition, where successful bidders will push the boundaries of hydrogen to see how it can be used to create a cleaner and more efficient transport sector.

Hydrogen, which produces no carbon emissions when used as a fuel, has an abundance of potential yet to be unlocked. The Hydrogen Transport Hub competition will encourage growth in this vital sector.

As part of the competition, run by Innovate UK, businesses and research groups will collaborate to discover how hydrogen can be used as a reliable fuel source. From lowering carbon emissions on grocery deliveries to making the air in cities cleaner, today's investment opens up the possibilities of hydrogen to revolutionise how people live and breathe across the country.

The competition will address challenges such as refuelling on a large scale,

ensuring buses and coaches can use hydrogen in public transport ecosystems and how to make the supply chain greener with hydrogen-fuelled HGVs.

As the technologies develop, the research from this competition will help bring about the large-scale production of low-carbon hydrogen, which could also reduce the nation's reliance on imported fossil fuels.

Today's announcement (6 October 2022) will also see an additional £300,000 put forward to support upskilling the local workforce and foster a specialised skills base and pipeline of talent, further cementing Tees Valley's status as the home of hydrogen. This will help grow the UK economy with a transport system that is resilient to global energy prices, environmentally friendly and could see the creation of hundreds of skilled jobs.

Transport Secretary Anne-Marie Trevelyan said:

Climate change is one of the biggest challenges this generation faces, and with transport contributing 24% to the UK's CO₂ levels, we are working hard to change things now and for the future.

Tees Valley continues to be the beacon for hydrogen technologies and will be further supported by £20 million going to the best and the brightest ideas that will create a world-leading industry with more skilled jobs in the heart of the north of England.

Tees Valley Mayor Ben Houchen said:

With ever-increasing global energy prices, a looming net zero deadline but a real chance to grab the emerging opportunity with both hands, now more than ever, we must be looking to the cleaner, safer and healthier industries of the future, such as hydrogen.

The first phase of our Hydrogen Transport Hub pilot, at sites including Teesside Airport, has already proved a great success, showing how these vehicles can be used safely, effectively and cleanly in a whole range of ways.

Now, thanks to this competition, our brilliant innovative businesses can go further to unlock the potential of hydrogen to transform our transport system and undertake vital research that – alongside plans by BP, Kellas Midstream, Northern Gas Networks and others – will cement our area as a hydrogen powerhouse.

With this new funding, the Hydrogen Transport Hub, a testing ground of hydrogen-focused businesses and expertise, will see its largest competition launch.

The previous competition earlier this year saw over £2.6 million awarded to

various winners to develop 21 vehicles. That included Toyota, which provided hydrogen vehicles for local police forces and HVS trucks which developed a hydrogen-powered van for large supermarkets to deliver largescale groceries, to offer a solution for when batteries cannot. Setting a good foundation, these examples are just the touchpaper to set alight the imagination of British businesses when building a greener economy, helping consumers seamlessly transition to a lower carbon lifestyle.

As a result, the UK is one step closer to solving one of the biggest challenges to reaching net zero in seeing larger vehicles utilising hydrogen across the transport network beyond battery power, with the winning bids aiming to display their final products from Spring 2023.

Innovate UK CEO Indro Mukerjee said:

Hydrogen innovation will play a key part in the UK's net zero ambitions and Innovate UK is ready to work with the most innovative businesses in this field.

We are pleased to partner with the Department for Transport and Tees Valley to help deliver a cleaner, greener future economy for the region and the UK.

Today's funding will further bolster an area that has seen renewed private investment in the last few years with fuel companies like BP, which is due to build a large-scale hydrogen production facility in Teesside.

With 8 years left until 2030, we must leave no one behind: UK statement at UN Second Committee

Madam Chair,

The United Kingdom congratulates you on your appointment. We look forward to working with you and the Second Committee bureau.

As we approach the midpoint of the Sustainable Development Goals, we must all renew our commitment to achieving Agenda 2030.

Development is at the heart of the UK's foreign policy. We remain a committed and substantial development partner, through our range of funding and expertise. The UK spends 0.5% of gross national income on ODA, and is committed to returning to 0.7% when our fiscal situation allows.

We are channelling most of our ODA towards low-income countries. We support the global goal of providing at least 0.2% of our GNI to Least Developed Countries.

The tight fiscal situation and debt distress faced by many developing countries is concerning. Scaled up and more effective financing and investment – which doesn't increase debt – is desperately needed, from a range of sources.

Through "British Investment Partnerships", we are working with governments and private sector to mobilise up to £8 billion annually of UK-backed financing. This will support economic growth, sustainable infrastructure, and a green and just energy transition.

During our G7 Presidency, we launched the "Partnership for Global Infrastructure and Investment", which also aims to mobilise \$600 billion over the next 5 years.

Countries need better access to international trade, which is why we launched the "Developing Countries Trading Scheme" to enable duty-free, quota-free trade.

The international financing system isn't working for many countries. The UK has signed up to the G20 ambition of channelling \$100 billion Special Drawing Rights to climate-vulnerable countries. We have committed to channel \$4 billion of SDRs via the IMF's new Resilience & Sustainability Trust.

Madam Chair,

The UK is proud of our COP26 Presidency and the historic Glasgow Climate Pact.

As we approach COP27 in Sharm el-Sheik and the CBD COP15 in Montreal, we will work with Egypt, China, Canada and others to maintain focus on the goals of the Paris Agreement and Glasgow Climate Pact. These agreements must be the starting point for all climate discussions, including in Second Committee. We will resist any attempt to row back from these agreements.

The UK was the first major economy to commit to bringing all greenhouse gas emissions to net zero by 2050. We are committed to 'No New Coal'.

We have promised to double our International Climate Finance to at least £11.6 billion to 2026. We will ensure a balance between mitigation and adaptation finance.

At UNGA High-Level Week, we launched a 10 Point Plan for Financing Biodiversity, with Ecuador, Gabon and the Maldives. This reinforces the need for all domestic financing and ODA to be nature-positive and eliminate harmful subsidies.

We are also hopeful about a new Global Biodiversity Framework with targets to protect 30% of land and oceans by 2030.

The UK has been a strong supporter of multilateralism as the core of how to support global health in our interconnected world.

Madam Chair

Since the outbreak of COVID-19, the UK has committed \$2.37 billion to help low and middle-income countries to manage impacts on the most vulnerable.

Through COVAX, the UK supported distribution of 1.5 billion COVID-19 vaccines to 87 developing countries. The UK is prioritising equitable access to vaccinations, therapeutics and diagnostics to support the 'One Health Approach'.

We look forward to discussing how to better prepare for future pandemics, at the upcoming UN High-Level meetings on PPPR and Antimicrobial Resistance.

We are acutely aware of how interlinked economic, social and environmental challenges affect countries in special situations such as SIDS, LDCs and LLDCs.

Last year, the UK co-authored the 'SIDS Call to Action' with Belize, Fiji and AOSIS, pressing for vulnerability to guide financial allocations, as set out in Glasgow.

We welcome publication of the interim report on development of a Multidimensional Vulnerability Index, and look forward to the final report. We encourage Second Committee's support and consideration of SIDS and LDCs across discussions.

Gender equality must be at the heart of our efforts, and a cross-cutting focus in Second Committee.

We commend the Secretary General for the Transforming Education Summit, and action to advance gender equality and girls' and women's empowerment in and through education.

With 8 years left until 2030, we still have time left to muster our hope, commitment and courage, and work together to realize the SDGs. We must leave no one behind.

Thank you.

Diplomacy is the only route to sustained peace on the Korean

peninsula: UK statement at the UN Security Council

Thank you President and I also thank ASG Khiari for his informative briefing.

President, as we've heard, at around half-past seven on Tuesday morning, as commuters in Northern Japan were making their way to work, evacuation alerts sent people rushing to shelters. Public transport came to a halt as a ballistic missile, launched without warning by North Korea, flew overhead.

The threat to international peace and security presented by North Korea's reckless and illegal ballistic missile tests could not be clearer. North Korea's latest launch of an Intermediate-range ballistic missile violates multiple UNSCRs. We stand in solidarity with the people of Japan, and of states in the region threatened by this unacceptable behaviour.

This latest test is a serious escalation, but the broader trend is just as concerning. This year alone North Korea has launched 39 ballistic missiles; seven of which were launched in the last ten days.

We urge Council members to meet these violations with a firm and united response. North Korea has been emboldened by the Council's inaction, and the use of the veto by two Council members. Diplomacy is the only route to sustained peace on the peninsula, but it is right that this Council continues to take appropriate, targeted measures to slow the pace of proliferation.

We again call on all member states to implement in full existing Security Council resolutions on North Korea. They are an essential part of efforts to counter the continued development of North Korea's prohibited programmes.

Let me be clear too that Council sanctions are not targeted at the North Korean people. We fully support the delivery of humanitarian support to the most vulnerable and therefore call on North Korea to allow an independent assessment of the humanitarian situation, and to allow aid to flow freely into the country.

Joint statement to the press delivered by Ambassador Linda Thomas-Greenfield, Permanent Representative at the United States Mission to the United Nations on behalf of Albania, Brazil, France, India, Ireland, Japan, Norway, the Republic of Korea, the United Arab Emirates, and the United Kingdom

The United States, Albania, Brazil, France, India, Ireland, Japan, Norway, the Republic of Korea, the United Arab Emirates and the United Kingdom, strongly condemn the DPRK's long-range ballistic missile launch which overflowed Japan on October 4 and its seven other ballistic missile launches conducted since September 25. The DPRK has now launched over 35 ballistic missiles this year alone.

These launches violate multiple Security Council resolutions and pose a threat to not only the region, but to the entire international community.

The United States, and those who have joined me at the podium today remain committed to diplomacy and continue to call on the DPRK to return to dialogue. But we will not stay silent as the DPRK works to undermine the global nonproliferation regime and threaten the international community.

The DPRK made its intentions clear in April and September when its leader signaled an effort to accelerate the DPRK's nuclear and ballistic missile programs and even alluded to pre-emptive use of nuclear forces. We are witnessing the DPRK's pursuit of this objective.

We call on all UN Member States, especially Council members, to join us in condemning this reckless behavior and in urging the DPRK to abandon in a complete, verifiable, and irreversible manner its unlawful weapons programs and engage in diplomacy toward denuclearization. We also recall the Council's decision in resolution 2397 referring to further significant measures.

We call on Member States to fully implement the relevant Security Council resolutions. Let us reaffirm that full implementation of the 1718 Committee mandate is necessary to effectively slow down and restrict the DPRK's weapons advancements.

Following the DPRK's provocations and escalatory behavior in 2017, the Council came together and unanimously took action to hold the DPRK accountable for its unlawful actions.

Now again the DPRK is testing the Council's resolve and we must act accordingly.