

A net zero world powered by technology innovation



We are a not-for-profit organisation and our mission is to work with industry, government and academia, driving technology innovation to accelerate the **energy transition.**



Timeline to reach net zero – UK and Scotland

UK - by 2050

Install 600,000 electric heat pumps a year by **2028**

Achieve so-called 'clean' electricity by **2030**, by rapidly increasing wind and solar generation

Ending the sale of new fully petrol and diesel cars by **2030**

investing in technology to capture and store CO2 - £21.7bn over the next 25 years (from 2024)

Scotland– by 2045

50% of Scotland's total energy demand (electricity, heat and transport) to be supplied by renewable sources by **2030**

Phase out new petrol and diesel cars and vans by **2030**

Current target of 25,000 heat pumps to be installed annually rising to 200,000 annually later in the decade



But there has been progress in the past decade...

£100+ bn

Invested in sustainable energy in the UK through government funding, private investment and the CfD scheme

428 Mt CO₂e

Abated by the UK between 1990 and 2022

£20 bn

Total investment in UK on and offshore wind - now a global leader with projects like the Viking Energy windfarm in Shetland, Hornsea 3 and Dogger Bank

639,400+ FTEs

UK employment in green jobs in 2022
(8.4% higher than in 2021)





We're part of that story with strong delivery from NZTC

£0.43bn

Invested with industry,
academia & government

£0.22bn

Leveraged from industry

42+ Mt CO₂e

Abated by 2030 (forecast)

3,370+

Technologies
screened

347

Projects

154

Field trials completed,
planned or underway

59

Commercialised
technologies

117

Start-ups
accelerated

38,640+

Industry guests and visitors
to the centre

350+

Thought leadership
contributions

3

National centres
of excellence





Our **commitment** by 2035:

Deliver **£2.7Bn GVA potential**

1,500

New jobs

Enable **7 million tonnes**
of **CO₂e abatement** potential

Accelerate

110+

clean energy start-ups

Unlock £100M
of private sector equity investment into start-ups

Commercialise

20+

new technologies

Attract £130M
match funding from industry



Technology driving transition

Delivering growth, innovation, jobs and energy transition through a dedicated super programme



Technology trials

Targeting innovative new technologies in the supply chain with field trials co-funded by industry to fast track their development and commercialisation


The image shows a close-up of a piece of industrial equipment, possibly a hydrogen fuel cell or engine, with a 'HonoWork' logo. The background is dark with some technical details visible.



TechX acceleration

Propelling clean energy technology startups and academic spinouts to commercialisation and beyond

The image features the TechX logo, which consists of the letters 'TX' in a stylized, overlapping font. Below the logo is the text 'Accelerating Innovation'. The background is a purple and blue gradient with some faint circular patterns.



Rapid infrastructure development

Identifying and accelerating net zero infrastructure projects at national, regional and local scale across the UK

The image shows a map of the United Kingdom with various regions highlighted and labeled, including Orkney, Shetland, Dumfries, Argyll/Highland, Glasgow, Fife, Dundee, and Perth & Kinross. The map is overlaid with a network of lines and nodes, representing infrastructure projects. The background is a dark blue and green gradient.



Strategic thought leadership

Strategic activities, including participation in important networks, contribution to the UK Net Zero ecosystem, and horizon scanning and foresight

The image shows a woman in a blue dress speaking at a podium. Behind her is a screen displaying the Hydrogen Innovation Initiative logo and the text 'The Hydrogen Innovation Initiative'. The background is a dark blue gradient.