

Net Zero Technology Centre (NZTC)

The NZTC are a not-for-profit organisation working with industry, government and academia driving technology innovation to accelerate the energy transition to net zero. They co-invest and collaborate with industry and government to develop and deploy new technologies and provide advisory solutions, insights and foresights on current and emerging technologies. Their TechX programmes also equip start-ups with funding, tools, resources and training.

Key Capabilities / Centres

Descriptions

TechX Clean Energy Accelerator

The TechX Clean Energy Accelerator is run over 15 weeks and requires a full-time commitment from participating start-ups. It equips start-ups with the funding, tools, resources and training they need to evolve and grow, accelerating their path to commercialisation and beyond. Eligibility criteria: 1. Have a novel technology within scope 2. Be pre-commercial, TRL 2-6; 3. Create impact; 4. Actively participate & demonstrate commitment; 5. Deploy in the UK; 6. Be eligible for funding; 7. Have not applied to TechX more than three times.

Technology Development / Roadmapping

Undertakes R&D to help co-develop and deploy new technologies with industry and government, helping them achieve net-zero ambitions and deliver a net zero energy system. Low carbon hydrogen is a key focus area. Also undertake decarbonisation roadmapping to allow organisations understand the right innovative technologies to be deployed for emissions reduction.

Horizon Scanning/ Technology Due Diligence

Produce insights into emerging technologies, industry trends, global projects and policy to provide an understanding of the hydrogen landscape, ensuring investor confidence for investment decisions.

Value Chain Areas	Testing & validation	Pilot manufacturing	Digital tools & simulation	Open innovation spaces	Skills development
Production	✓	✓	✓	○	X
Networks	✓	✓	✓	○	X
Storage	✓	✓	✓	○	X
Transport	✓	✓	✓	○	X
Industry	✓	✓	✓	○	X
Power	✓	✓	✓	○	X
Heat	✓	✓	✓	○	X

*Tick = yes, ○ = potential, X = no

Collaboration opportunities

- **The TechX Accelerator program**, built on opportunities for startups and expert partners, provides tuition, expert guidance, advice, and field trial opportunities across the hydrogen value chain.
- **Wind2Hydrogen** collaborates with wind developers on hydrogen market entry, addressing common technical and commercial challenges with a unified voice.
- **Joint Innovation Programs** provide opportunities with industry partners to develop net-zero solutions, technologies, and initiatives, and drive standardization.
- **Technology Services** offer opportunities for net zero technologies to be included within the databases.

Centre location



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Hydrogen case studies

- **NZTTP: European Hydrogen Backbone Link:** Connecting Scotland to the European Hydrogen Backbone to create export opportunities of green hydrogen and hydrogen technologies.
- **NZTTP: Energy Hubs:** Identifying key opportunities and technologies to deliver the nation's future low carbon energy requirements.
- **HOP2:** Showcasing the feasibility of 500MW-1GW offshore hydrogen production by repurposing existing assets. Outlines potential impact on the UKCS and regional workforce with a new build asset for offshore production anchored in Scotland, supporting a just transition.