

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 <u>so-called 'clean' electricity by **2030**</u>, 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

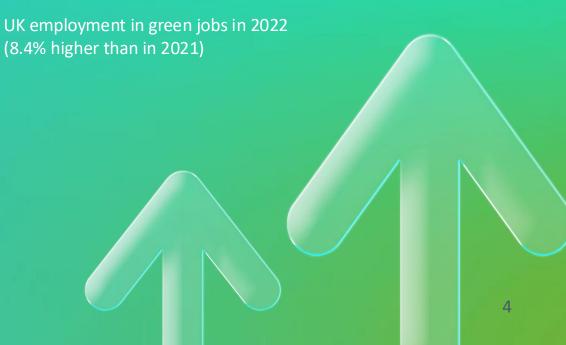
£20 bn

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

428 Mt C02e

Abated by the UK between 1990 and 2022

639,400+ FTEs





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 C02e

Abated by 2030 (forecast)

3,370+

Technologies screened

38,640+

Industry guests and visitors to the centre

347

350+

Projects

154

Field trials completed, planned or underway

59

Commercialised technologies

117

Start-ups accelerated

Thought leadership contributions

National centres of excellence





Our commitment by 2035:

Deliver £2.7Bn GVA potential

1,500

New jobs

Accelerate

110+

clean energy start-ups

Commercialise

20+

new technologies

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

Unlock £100M

of private sector equity investment into startups

Attract £130M

match funding from industry

Technology driving transition

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





