

## Reducing CO<sub>2</sub> emissions with NiTech technology

COP26 is about to take place in NiTech Solution's home country. It provides the perfect opportunity to showcase Scotland as a global leader in sustainable development, and NiTech's expertise as a leading authority on continuous processing.



NiTech is focused on working towards a safer and greener future, and meeting Net Zero goals. We can support your need to invest in manufacturing units that have a lower carbon footprint – and are cheaper, safer and more efficient.

We can help you to develop a sustainable and competitive route to production in key areas - including chemicals, cannabidiol (CBD), pharmaceuticals, propellants, CO<sub>2</sub> capture, polymers and food ingredients.

- ❖ >70% plant footprint reduction
- ❖ >50% capex reduction
- ❖ >30% operating cost reduction
- ❖ >10% yield improvement
- ❖ Quality more consistent
- ❖ Process more controllable and repeatable

COP26 runs from 31 October to 12 November 2021.

## New NiTech video illustrates CBD technology

Increasing legalisation and soaring CBD isolate demand for health and wellness applications is driving strong market growth.

NiTech's proven continuous crystallization technology can produce CBD free from tetrahydrocannabinol (THC), which is strictly controlled due to its psychoactive properties.

Our technology can produce high-purity CBD isolate with a single pass – as demonstrated in this newly released video, available to view [here](#).



## NiTech joins iCAST

NiTech is now a member of the UK's Innovation Centre for Applied Sustainable Technologies (iCAST), which is based at the Universities of Bath and Oxford.

Launched [in May 2021](#) by the University of Bath's Centre for Sustainable and Circular Technologies (CSCT), iCAST's ambition is to become an R&D and collaboration hub for companies working on clean growth technologies.

iCAST's expertise spans the following areas:

- ❖ Clean energy
- ❖ Bio-based resources and production
- ❖ Sustainable materials
- ❖ Chemical and bio-chemical processes
- ❖ Waste valorisation and recycling



iCAST has more than 45 members including spinouts, high-growth SMEs and multinational corporations including Unilever, Total Corbion PLA, Wessex Water, Naturbeads, and Recycling Technologies.

NiTech is keen to hear from companies seeking a technology partner for projects that come under iCAST's scope. Contact us at [sales@nitechsolutions.co.uk](mailto:sales@nitechsolutions.co.uk).

### Why adopt continuous crystallization?

NiTech's founder Prof Xiong-Wei Ni outlined the reasons for choosing continuous crystallization at the Royal Society of Chemistry's Symposium, 'Chemspec Digital', last month. He presented work in continuous cooling & antisolvent, and a combination of the two, as well as reactive crystallization using our DN15 crystallizers.

Please click [here](#) to download the paper.