CarbonCapture SCOTLAND

Capture, utilisation and storage of biogenic CO_2

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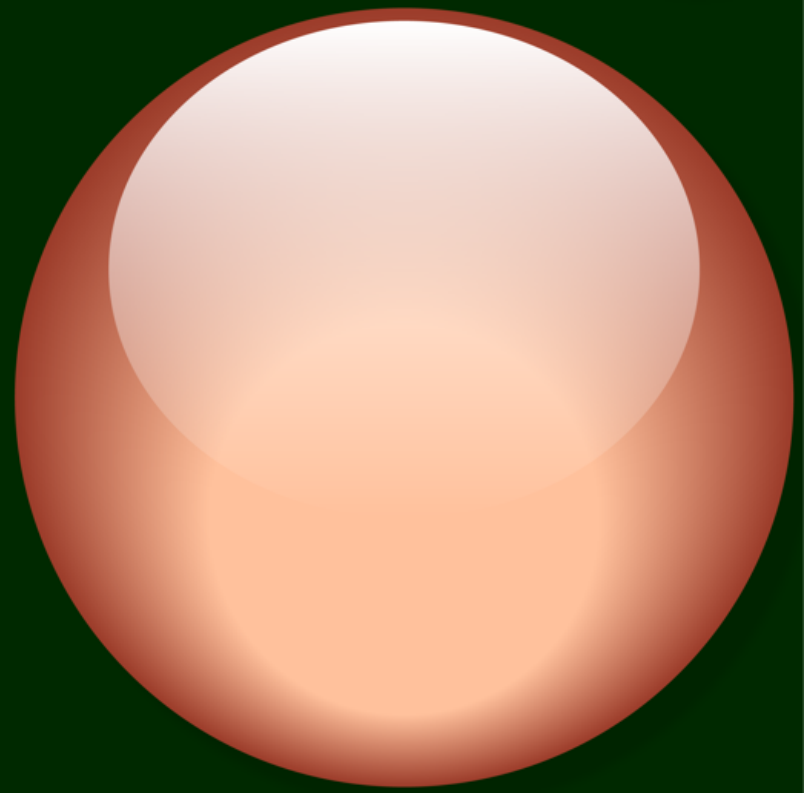

CHALLENGE

We need 10 million tons engineered carbon removals per year by 2030

PROBLEM

Biogenic CO_2 point sources are small, dispersed and difficult to capture

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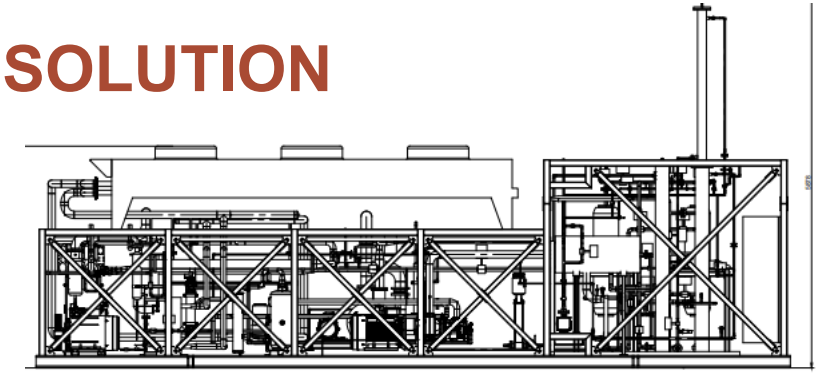
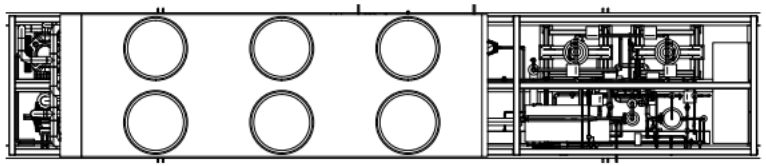
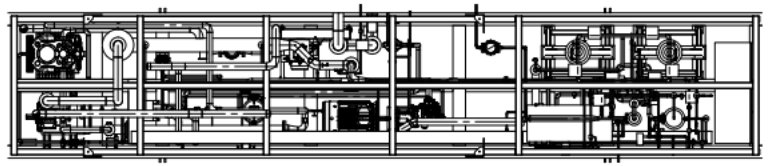
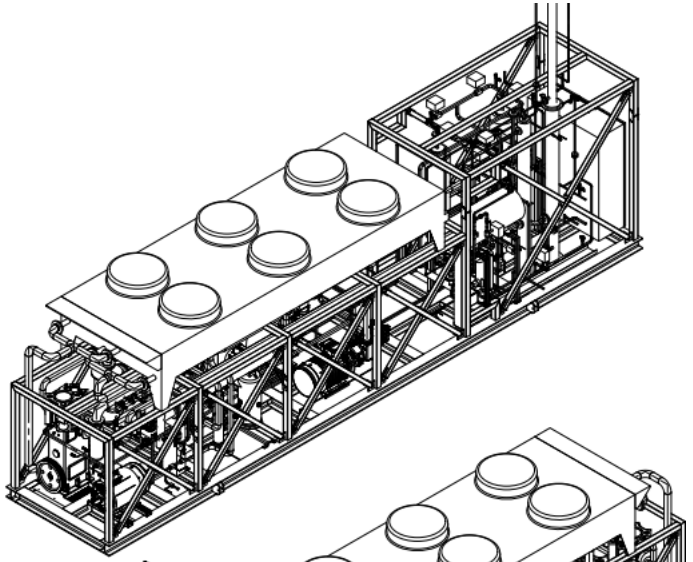
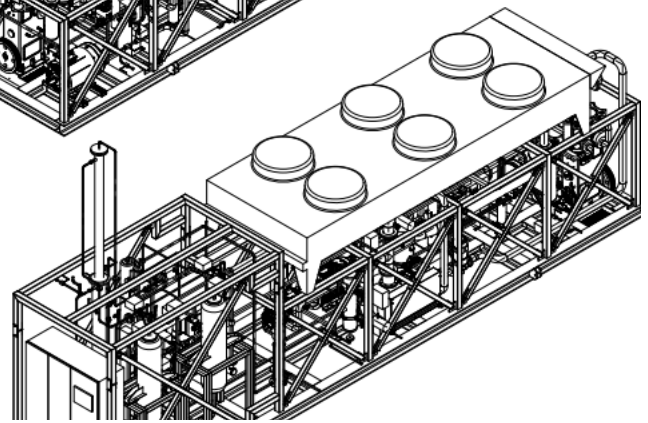
SOLUTION











CAPTURE

Our proprietary technology bolts onto existing fermentation processes.

LIQUEFY

We reduce volume by over 500 times by liquefaction to allow for storage and transportation.

TRANSPORT

Our transportation network operates UK wide and uses economy of scale to deliver economical haulage of CO2.

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TRANSPORT

100+ ISO container fleet

Ready by end 2024

Road, rail and marine compliant

WHO WE ARE

We build, own and operate CO2 capture and transportation infrastructure.

Founded by Richard and Ed Nimmons.

- Combined 22 years experience in CO_2
- Previous business, grew across 5 continents in 3 years. Exited in 2019.

Board includes:

Tommy Leigh – 40 years + in distilling

Sanjay Parekh – Engineered Removals and DAC expert

Raphael Pfaeltzer – Geological Storage and carbon removal business model expert.

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MILESTONES

2021

First plant commissioned, capturing up to 10,000t CO_2 per year

2022

Secondary capture units installed, capturing and recycling up to 25,000t CO_2 per year combined

2023

First proprietary units installed at North British Distillery, increasing total capacity to 85,000t in 2024.

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PROJECT NEXUS

A CarbonCapture Scotland Initiative

Project Nexus connects multiple dispersed CO_2 capture points with geological stores in the North of Scotland.

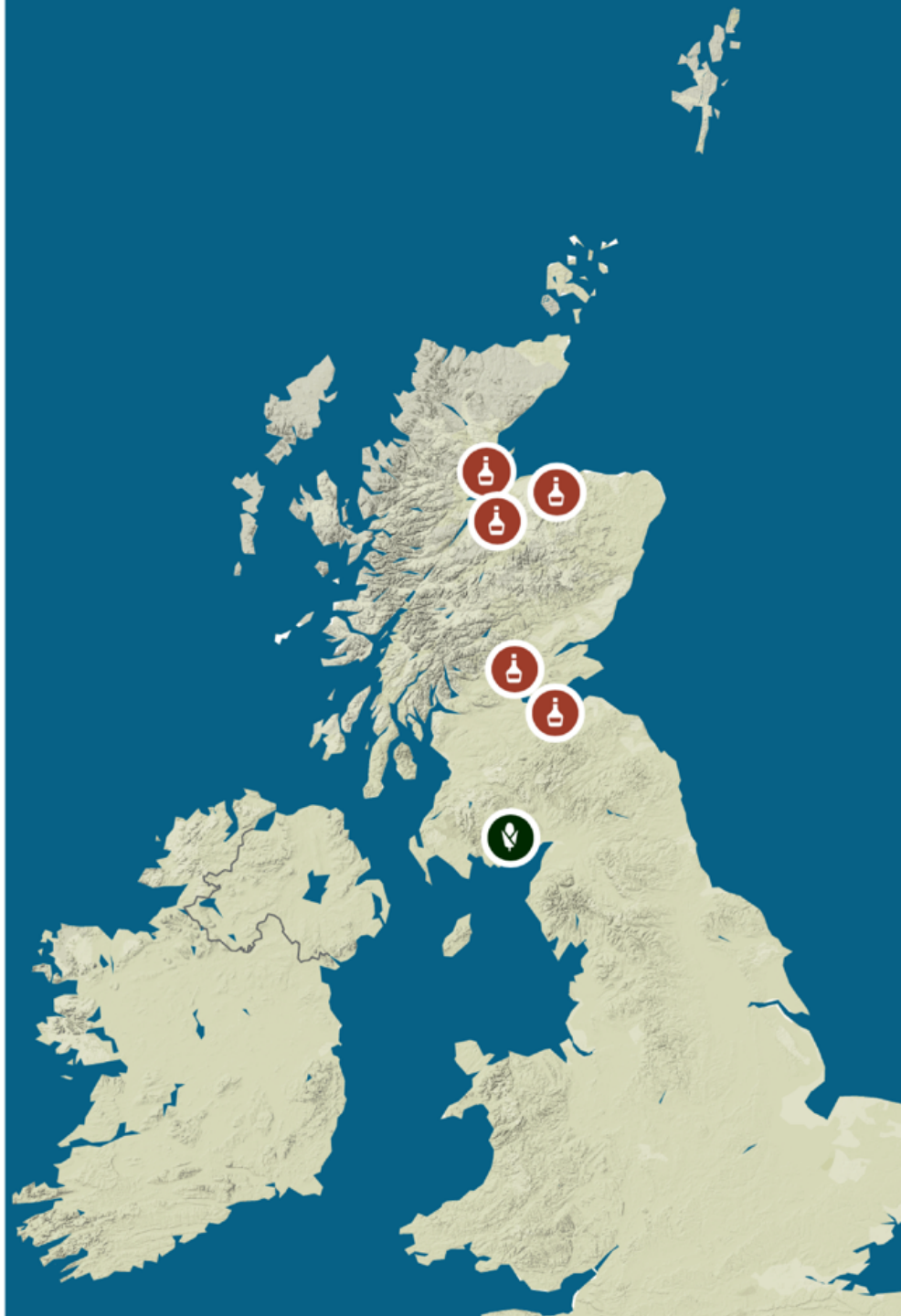
Phase 1 – 1m tons per annum, >10,000-year permanence.

The model of co-location of emission points with local geological storage and/or utilization can be replicated worldwide at 500m tpa scale.

Tullibardine
HIGHLAND SINGLE MALT SCOTCH WHISKY

TOMATIN
DISTILLERY

WHYTE & MACKAY



PROBLEMS SOLVED

Solves the challenge of dispersed site emissions.

Capture/liquefaction units built to order within 5-month timeline.

Develops carbon capture skills and jobs in the rural economy with local supply chains.

Proprietary technology – without it, capture of fermentation emissions would not happen. 100% additional.

No resource/land usage competition – whisky production is an embedded industry.

Low power consumption – 7kg CO_2e per ton captured.

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THANK YOU

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