



CO₂ Catalysts & Reactor Designs For Fuels, Chemicals & Plastics

In a net zero world, we will still need hydrocarbons

Renewables can be used directly for **power** and **ground transport**...

And some sectors can use **hydrogen** directly...



...But we will still need **carbon-based molecules** for long distance **fuels**, **chemicals** and **plastics**



Fuels due to energy density.



Petrochemicals and...



...**plastics** as carbon is the backbone of the molecules.

But with no fossil fuels, where will we get them from?

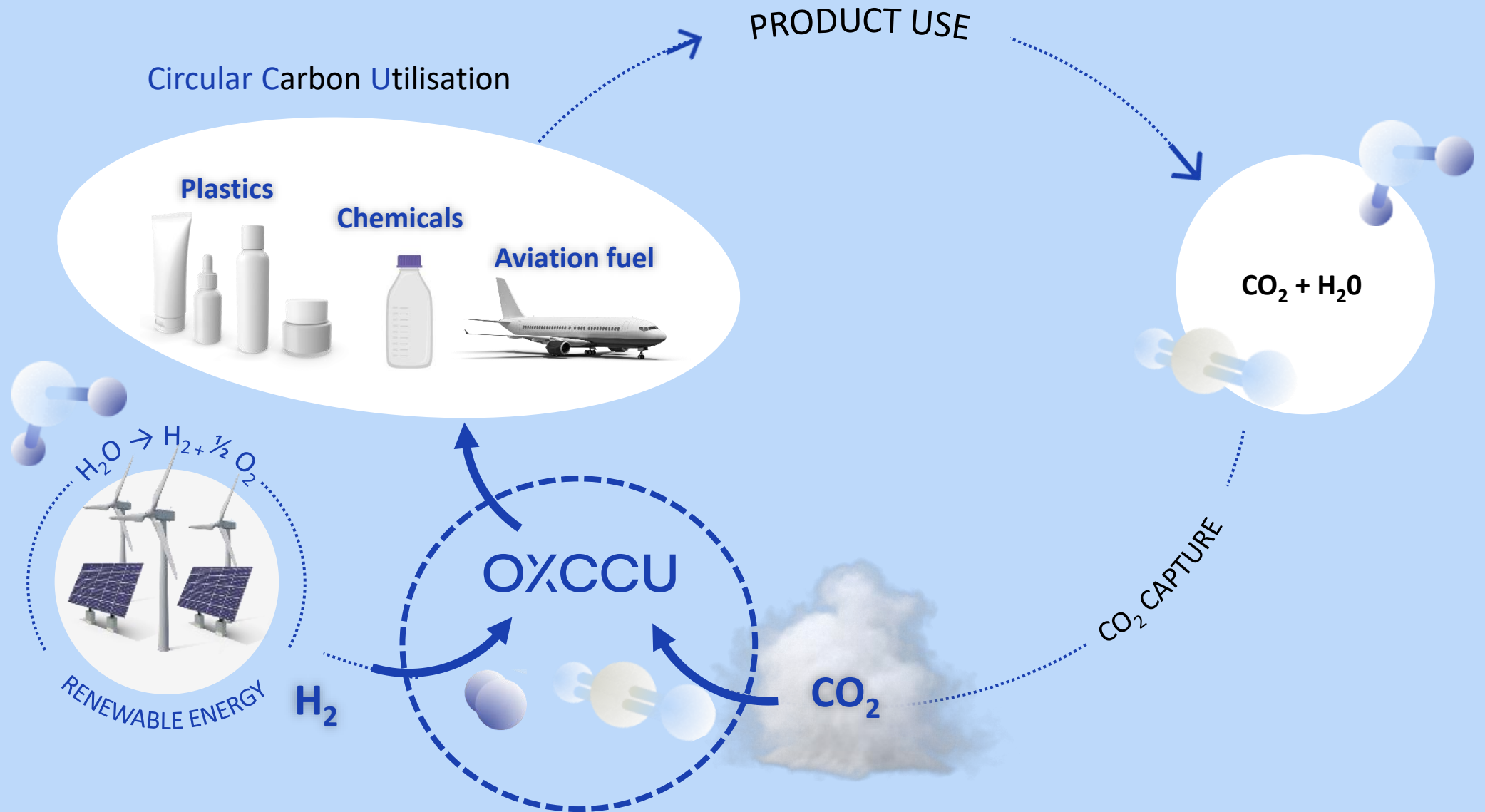


Bio-derived fuels and plastics have well-known issues at scale

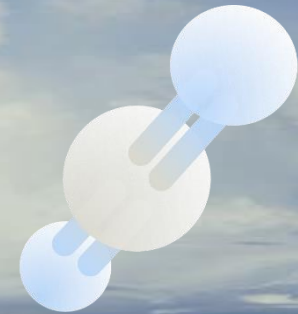
competition with food; land use; biodiversity; fertiliser use; water use; oxygen in molecules; processing of 2nd generation;



The answer is utilising carbon dioxide (CO₂)



The challenge is activating inert CO₂...



The answer is **catalysts**

OxCCU

is an Oxford University
spin-out developing

Novel Catalysts & Reactor
Designs for CO₂ Utilisation

CO₂

H₂

E-HYDRO
CARBONS

H₂O



\$23m Series A with world-class investors

KIKO

One of Europe's most active and longstanding climate tech investors



CLEAN ENERGY
VENTURES

Top US cleantech VC – just raised new £200m+ fund



UNIVERSITY OF
OXFORD

Ranked best university in the world

BRAAVOS

One of the largest investors in Oxford

aramco



One of the largest companies in the world at over \$2 trillion



One of the largest oil companies in the world

UNITED



World's third largest airline

DORAL

Leading renewable project developer with a total pipeline of 18 GW

TRAFIGURA

One of the largest physical commodities traders in the world

TechEnergy
Ventures

Linked to Techint, one of the largest global engineering firms

Published in nature communications 2020

Forbes

“These Oxford Scientists Just Created Carbon-Neutral Jet Fuel From CO₂”

WIRED

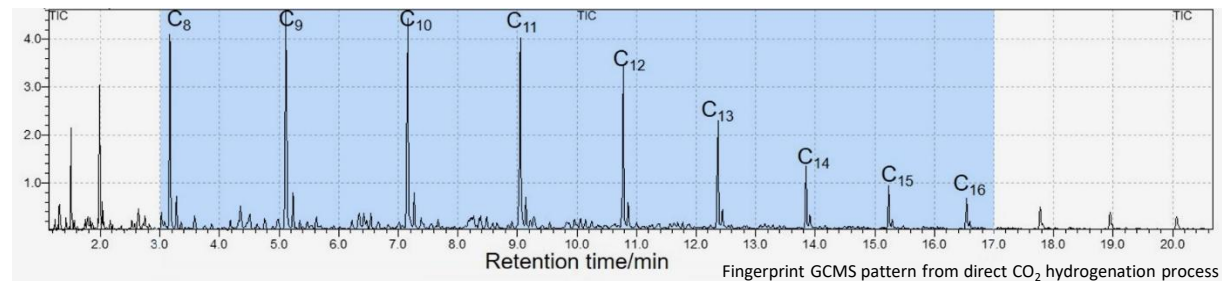
“Could Carbon Dioxide Be Turned Into Jet Fuel?”

INDEPENDENT

“Scientists create jet fuel using CO₂ that could lead to carbon neutral flights”

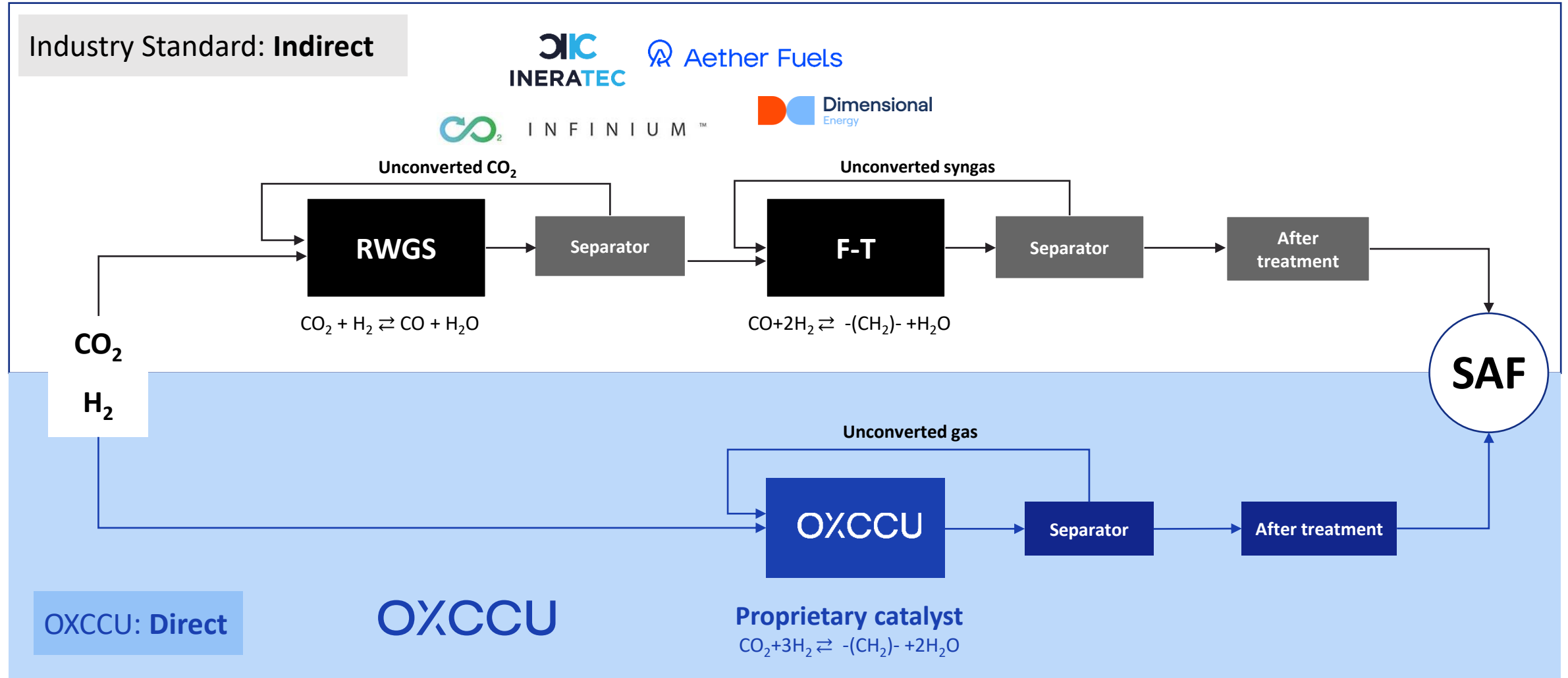
The Washington Post

“Researchers unveil new method for converting carbon dioxide into jet fuel”



Aviation fuel range hydrocarbons (C₈-C₁₆)

One-step conversion of CO₂ to jet fuel



Demo plants first, then move to licencing to project developers

UPFRONT PAYMENT

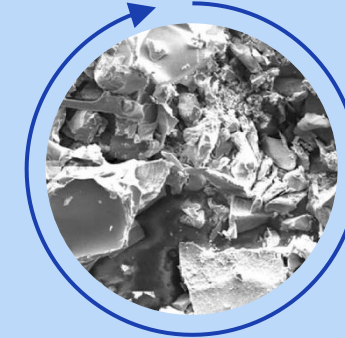
Technology Package



- ✓ Sell technology package to project developer
- ✓ Upfront fee on signing, larger upfront fee when operational
- ✓ Tiered pricing according to capacity of plant
- ✓ Delivery by EPC partner. Ongoing O&M is customer expense

RECURRING

Royalty & Catalyst Supply



- ✓ Royalty based on fuel produced
- ✓ Long-term supply contracts for proprietary catalyst
- ✓ Stable, predictable, recurring revenue
- ✓ Catalyst manufacture, supply & renewal by third party via tolling agreement

Proven business model

OXCCU

JM Johnson Matthey
Inspiring science, enhancing life

BASF

TOPSOE

CLARIANT

SÜD-CHEMIE
CREATING PERFORMANCE TECHNOLOGY

Honeywell
UOP

SASOL
reaching new frontiers

CONFIDENTIAL

The background features a large, stylized blue graphic composed of several diagonal lines. A thick line runs from the bottom-left towards the top-right. Two thinner lines cross it: one from the top-left towards the bottom-right, and another from the bottom-right towards the top-left, creating a central diamond-like shape.

Thank you!