

# OXCCU

## Sustainable Jet Fuel from CO<sub>2</sub> and H<sub>2</sub>

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A spinout from the University of Oxford

# OXCCU — Enabling PtL SAF at scale with speed

## OXCCU - At a Glance

<b>Mission</b>	To develop the lowest cost Power to Liquids (P2L) pathway via a novel catalyst and process for CO <sub>2</sub>
<b>Capital Raised to Date</b>	Q2 2023 £18M Series A – Blue-chip investors including Clean-Energy Ventures, Eni, United & Aramco
<b>Patents</b>	3 filed, 3 in progress, global filing
<b>Employees</b>	21
<b>Commercial Progress &amp; Path to Exit</b>	<ul style="list-style-type: none"><li>• OX1 constructed and delivered in Aug 2024 – 1.2 litre per day capacity</li><li>• First offtake agreement LOI executed</li><li>• Demonstration project (OX2) – target Q2 2026 – 1-3 tpa in development/ engineering</li><li>• Commercial project (OX3) – target Q4 2027 - 10,000 tpa</li></ul>

OXCCU has a patented novel catalyst and scalable one-step process utilising CO<sub>2</sub> and hydrogen to produce low-cost sustainable jet fuel (SAF) hydrocarbons



OXCCU technology is on a path to produce at large scale to satisfy SAF Mandates in 2028

# PtL SAF is taking off

Clear legislation, clear demand and investors are responding

## OXCCU Investors include



KIKO



## PtL enables governments to meet targets impossible with biofuels alone



### UK SAF mandate

**2% SAF** By 2025

**10% SAF** By 2030

**22% SAF** By 2040

**0.2% PtL** By 2028

**0.5% PtL** By 2030

**3.5% PtL** By 2040



### Refuel EU

**2% SAF** By 2025

**5% SAF** By 2030

**32% SAF** By 2040

**63% SAF** By 2050

**0.7% PtL** By 2030

**8% PtL** By 2040

**28% PtL** By 2050



### US

**3Bn** gallons of SAF production by 2030

**35Bn** gallons of SAF production per year by 2050



### Singapore

**1% SAF** From 2026

**3-5% SAF** By 2030

# The current challenge for e-fuels producers is getting costs down...

Even with more subsidies and incremental improvements, current PtL pathways will remain too expensive, and projects will struggle to scale-up



High capital cost due to multiple step processes



High operating costs due to high energy input and low selectivity

# OXCCU's novel PtL pathway is the solution

By removing the most difficult step in the process, we:

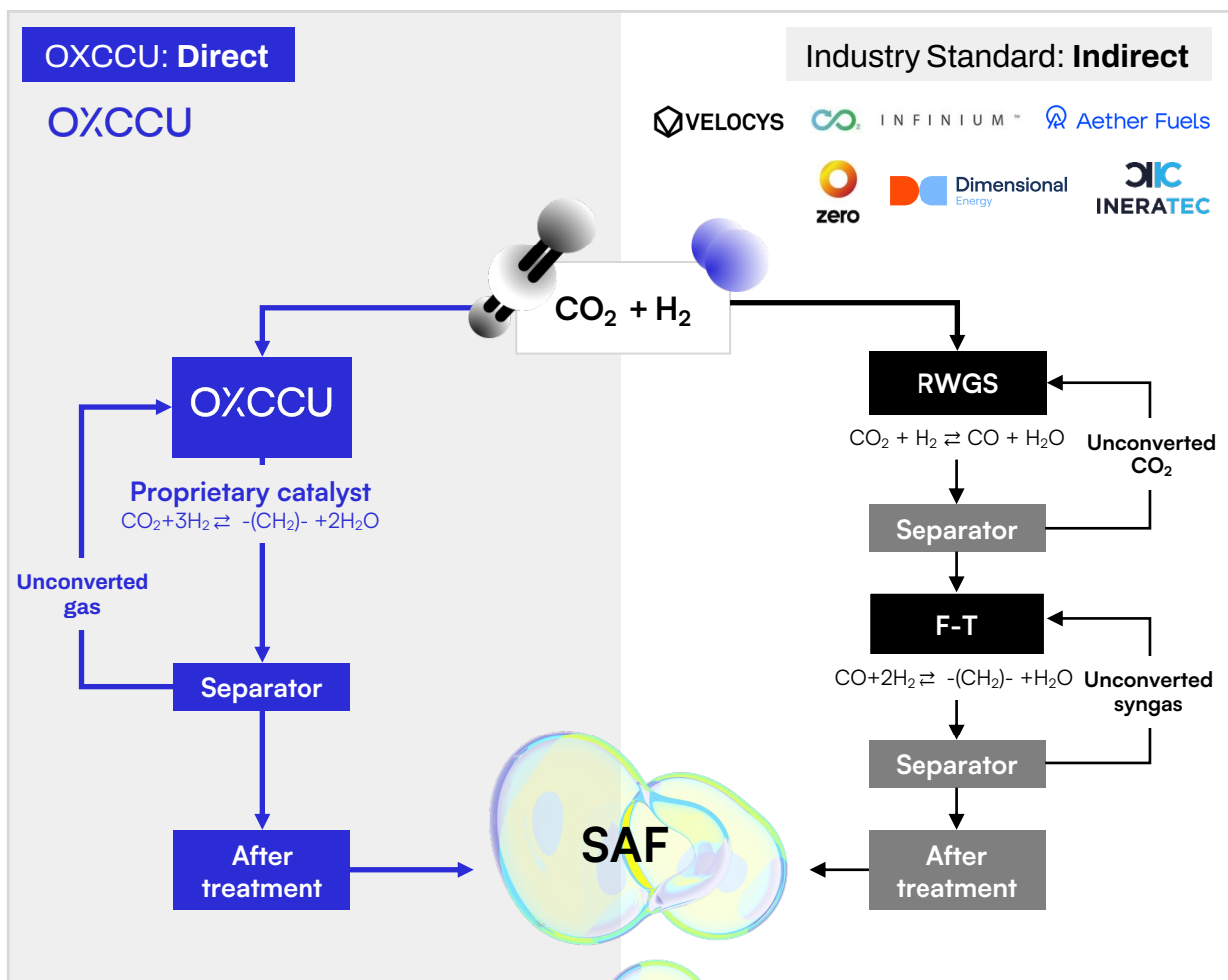


Reduce CAPEX



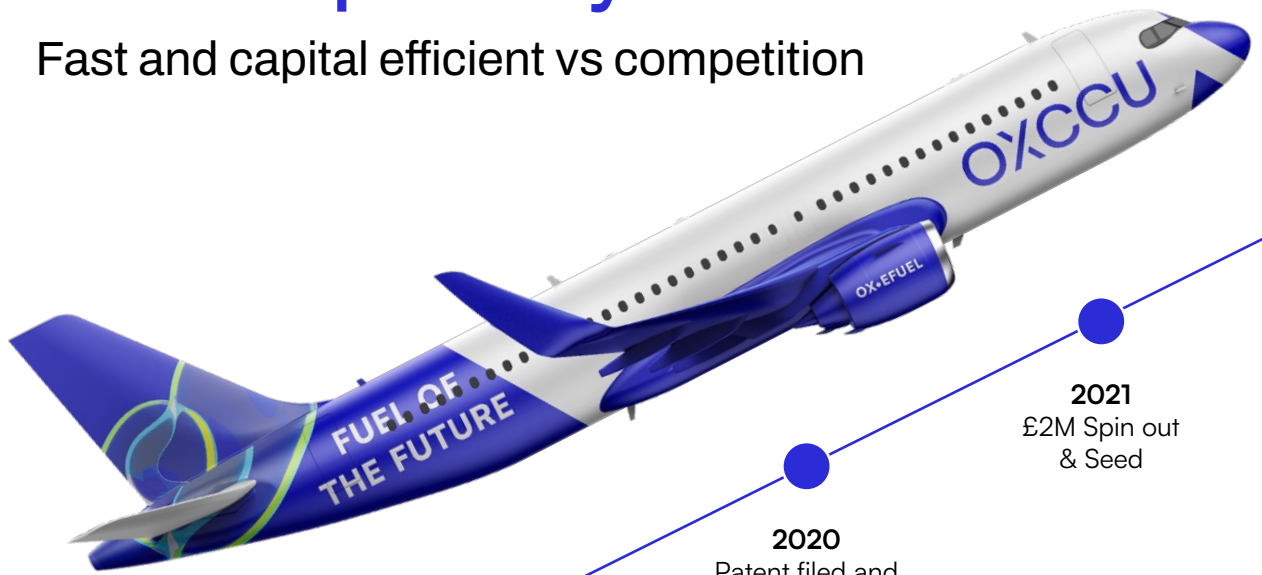
Reduce OPEX

## OXCCU offers direct, one-step conversion of CO<sub>2</sub> to jet fuel range



# OXCCU pathway to scale

Fast and capital efficient vs competition



**2010**  
Early research starts  
**Catalyst R&D**

**2022**  
3,000 hours stability test in shaped form  
**Shape Catalyst**

**Q2 2026**  
Deliver 1-3 tpa integrated demo plant and sign partnerships/ offtakes  
**OX2 Demo Project**

**2014**  
EPSRC research funding

**2023**  
£18m Series A (Clean Energy Ventures, Kiko, Aramco, ENI, United, Trafigura, Oxford)

**Q1 2027**  
£50-100M Series C

**2020**  
Patent filed and paper published  
**Catalyst IP Filed**

**2024**  
Deliver kg/day plant in Oxford  
**OX1 Pilot Project**

**2028**  
Deliver 10,000 tpa project  
**OX3 Commercial Project**

**2021**  
£2M Spin out & Seed

**2025**

**2030**  
JV project development and technology licencing globally  
**Projects**  
**Licensing**