

ESSAR ENERGY TRANSITION

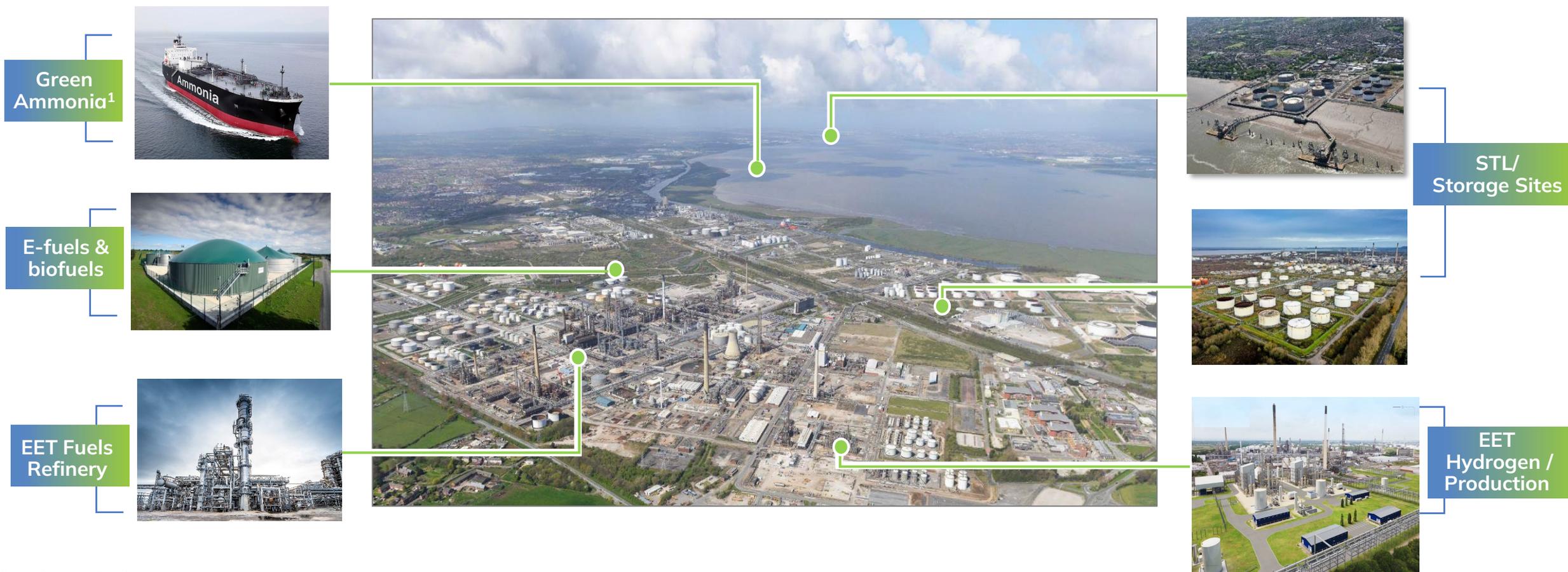


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Roadmap to decarbonisation

EET will host one of the largest energy transition hubs in Europe

- EET Fuels is a leading player in the decarbonisation of the UK economy and is transforming its Stanlow Manufacturing Complex into one of Europe’s largest energy transition hubs
- The combination of hydrogen, refinery decarbonisation, e-fuels and biofuels with unrivalled infrastructure, expertise and EET’s large land bank (c.900 acres) will facilitate the process



Green Ammonia¹



E-fuels & biofuels



EET Fuels Refinery



STL/ Storage Sites



EET Hydrogen / Production



Source: Company information.
¹ Green ammonia produced in India and imported in the UK.

At the heart of HyNet, one of the two Track-1 UK CCUS clusters selected by UK Government to progress to negotiation phase



HyNet provides a **carbon capture & storage network**, and a **low carbon hydrogen transport & storage eco-system** across the North West of England and North Wales

EET is the only supplier of large-scale low carbon hydrogen within the cluster through its subsidiary EET Hydrogen

EET Fuels is the largest industrial CO₂ emitter in the region and is decarbonising its operations through energy efficiency, fuel switching and carbon capture

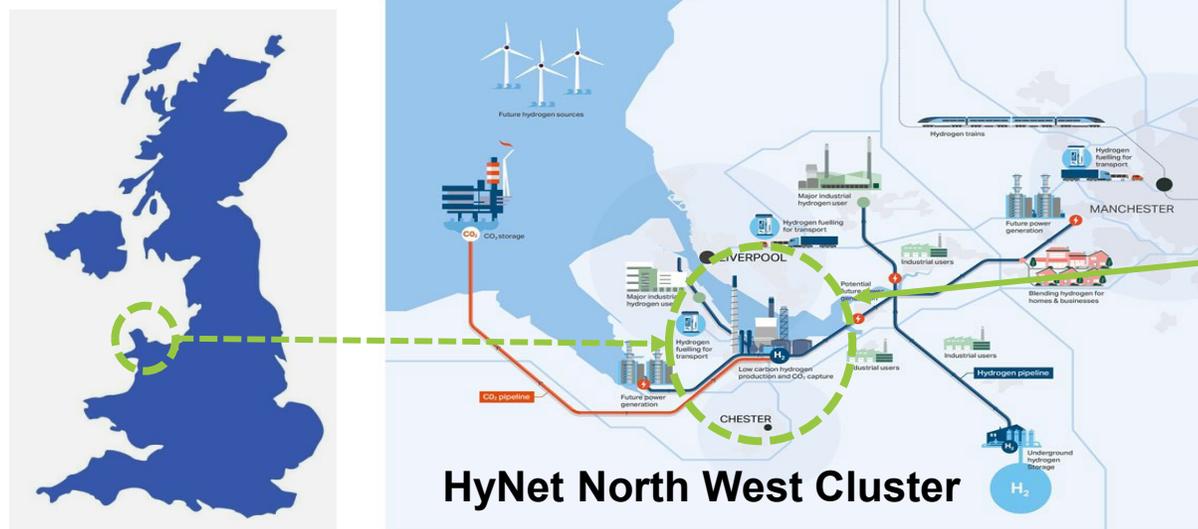


Delivering 95% decarbonisation this decade

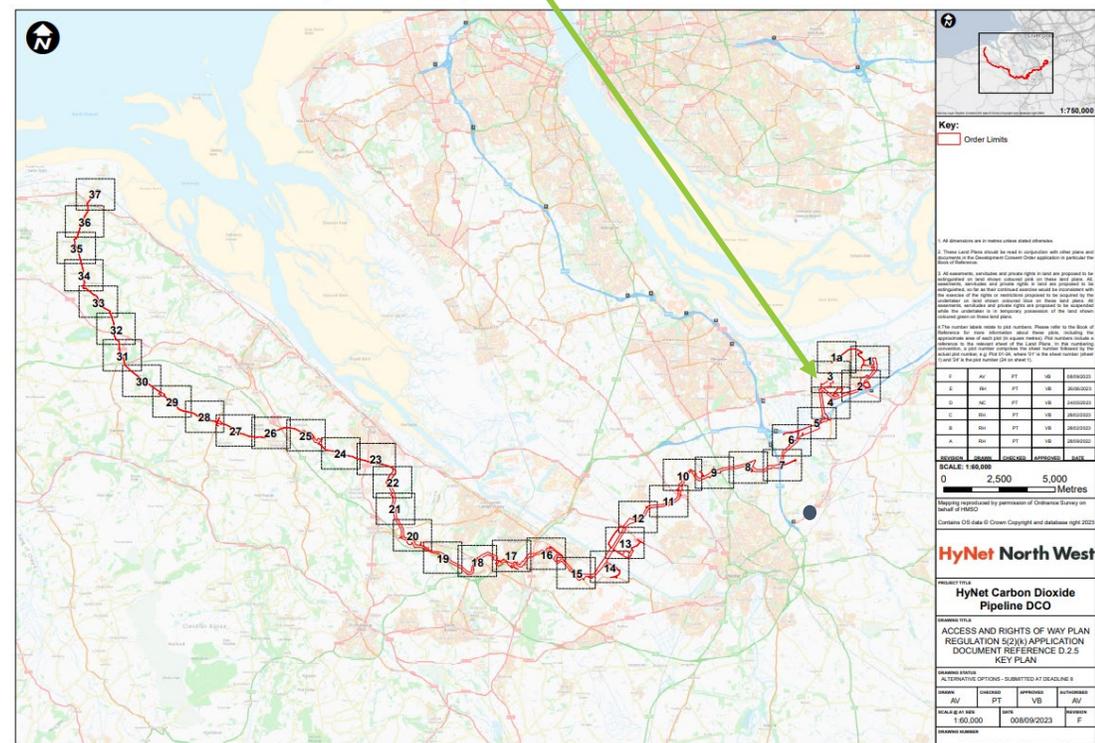


UK's first large-scale low carbon hydrogen production facility

Our unique location



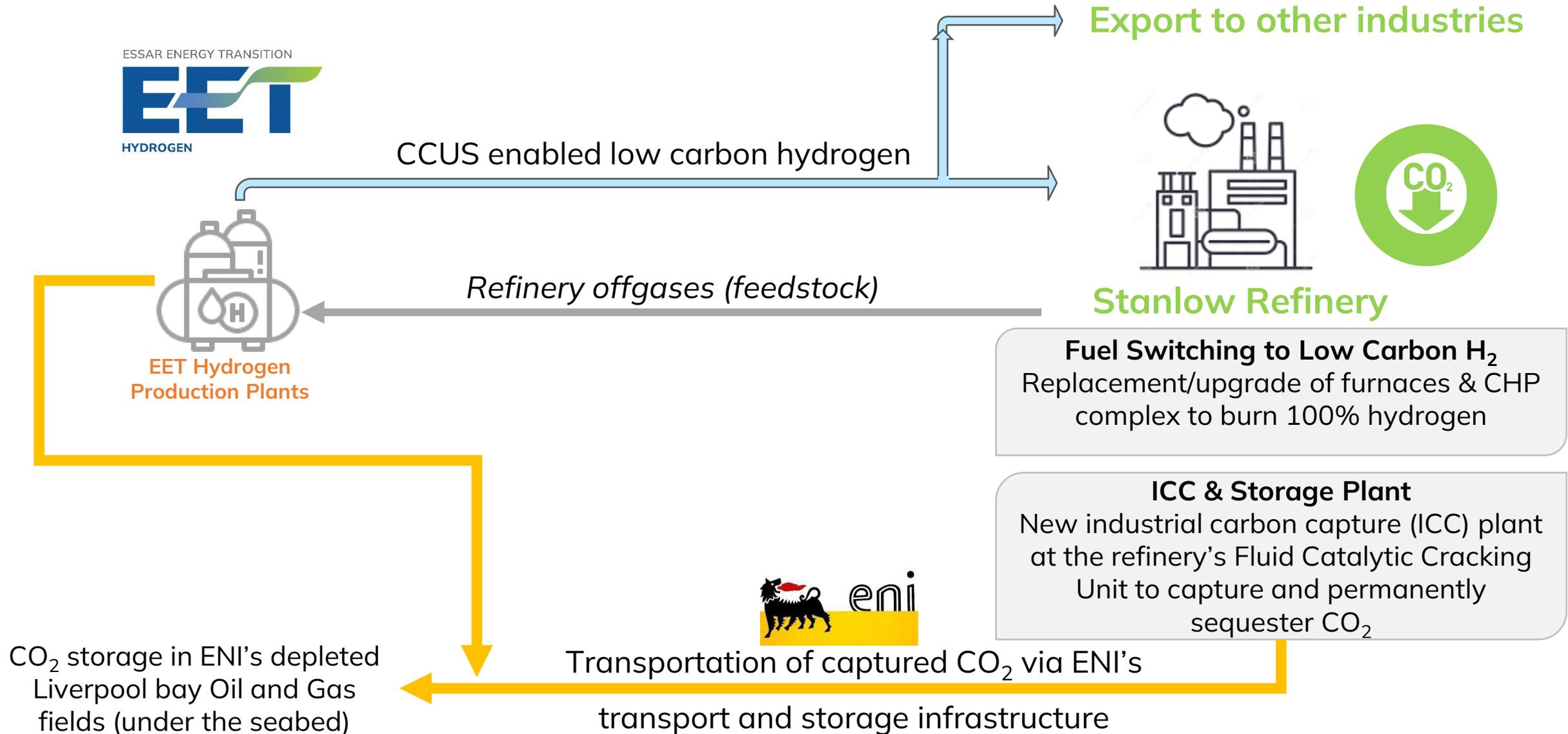
Key EET companies, part of the wider Essar Group, sit in Stanlow, Cheshire, at the heart of HyNet



The HyNet pipeline:

- Within the physical boundary of the existing refinery (no need for additional spur lines) and utilises repurposed natural gas pipelines and offshore depleted oil & gas fields in Liverpool Bay.
- Being consented under development consent order (DCO). Expected approval by Secretary of State in March 2024

Decarbonisation plans – our strategy

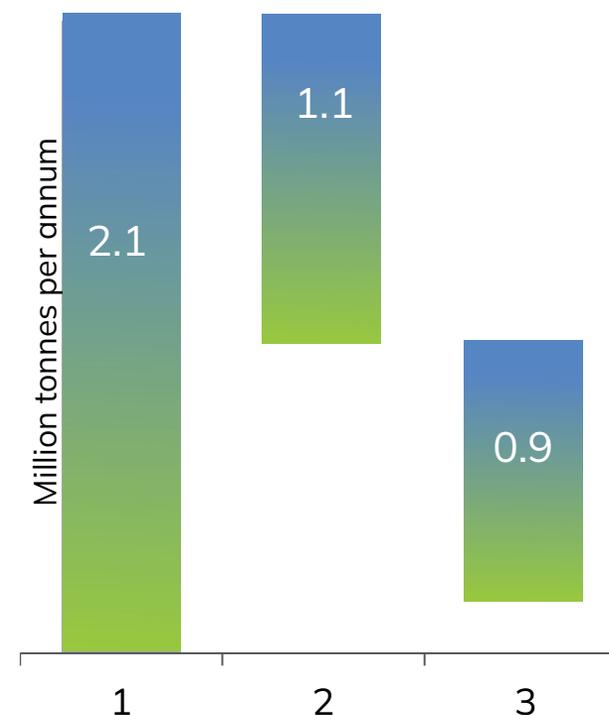


EET Fuels to deliver the UK's first low carbon process refinery

Leading decarbonisation plans amongst global refiners, will achieve a 95% reduction on emissions before 2030

 <p>Hydrogen & Energy Efficiency 1.1 Mtpa of CO₂ savings</p>	<ul style="list-style-type: none"> Hydrogen from EET Hydrogen to replace fossil hydrocarbons across EET Fuels' furnaces and combined heat and power (CHP) plant More low carbon power enables "electrification based" energy efficiency projects Investments are already underway with the hydrogen-ready crude distiller furnace being commissioned in 2025
 <p>Industrial Carbon Capture 0.9 Mtpa of CO₂ savings</p>	<ul style="list-style-type: none"> 43% contribution to total site's CO₂ reduction ICC project investment to be backed with Government support under the UK's industrial carbon capture business model

Carbon emissions to reduce from 2.1 MTPA to 0.5 MTPA



An aerial night photograph of an industrial site, likely a refinery or chemical plant. A multi-lane road runs parallel to the facility, illuminated by streetlights. A large sign is visible on the left side of the road. The industrial structures are complex, with many pipes and scaffolding. A semi-truck is visible on the road. The sky is dark, and the overall scene is lit by artificial lights.

First hydrogen-ready crude distiller furnace being commissioned in 2025, awaiting low carbon hydrogen production from EET Hydrogen

Chester
Wrexham
Warrington
(M 56)

Queensferry
Stanlow
A 5117

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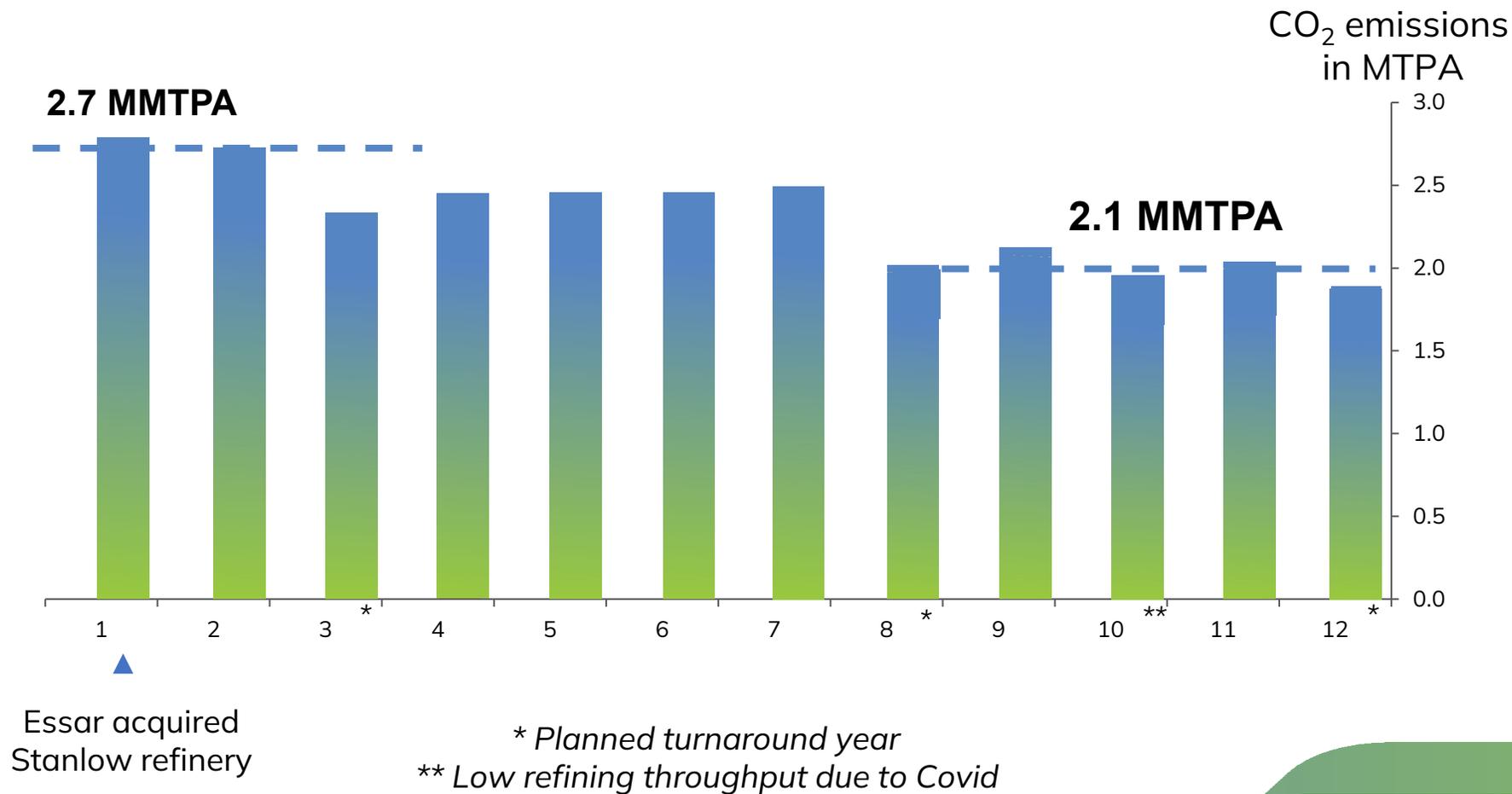
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Decarbonisation progress

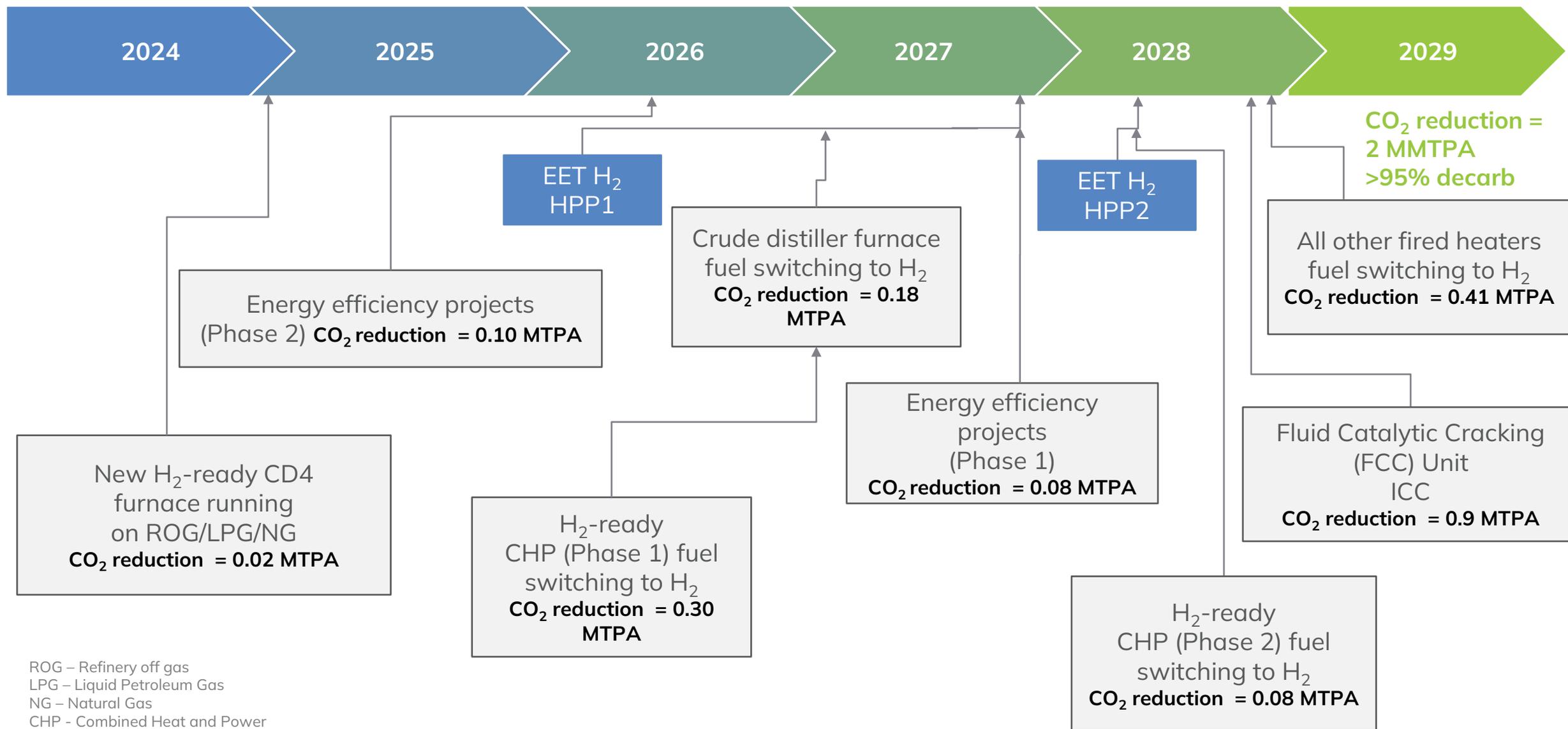
22% CO₂ reduction at same crude rate



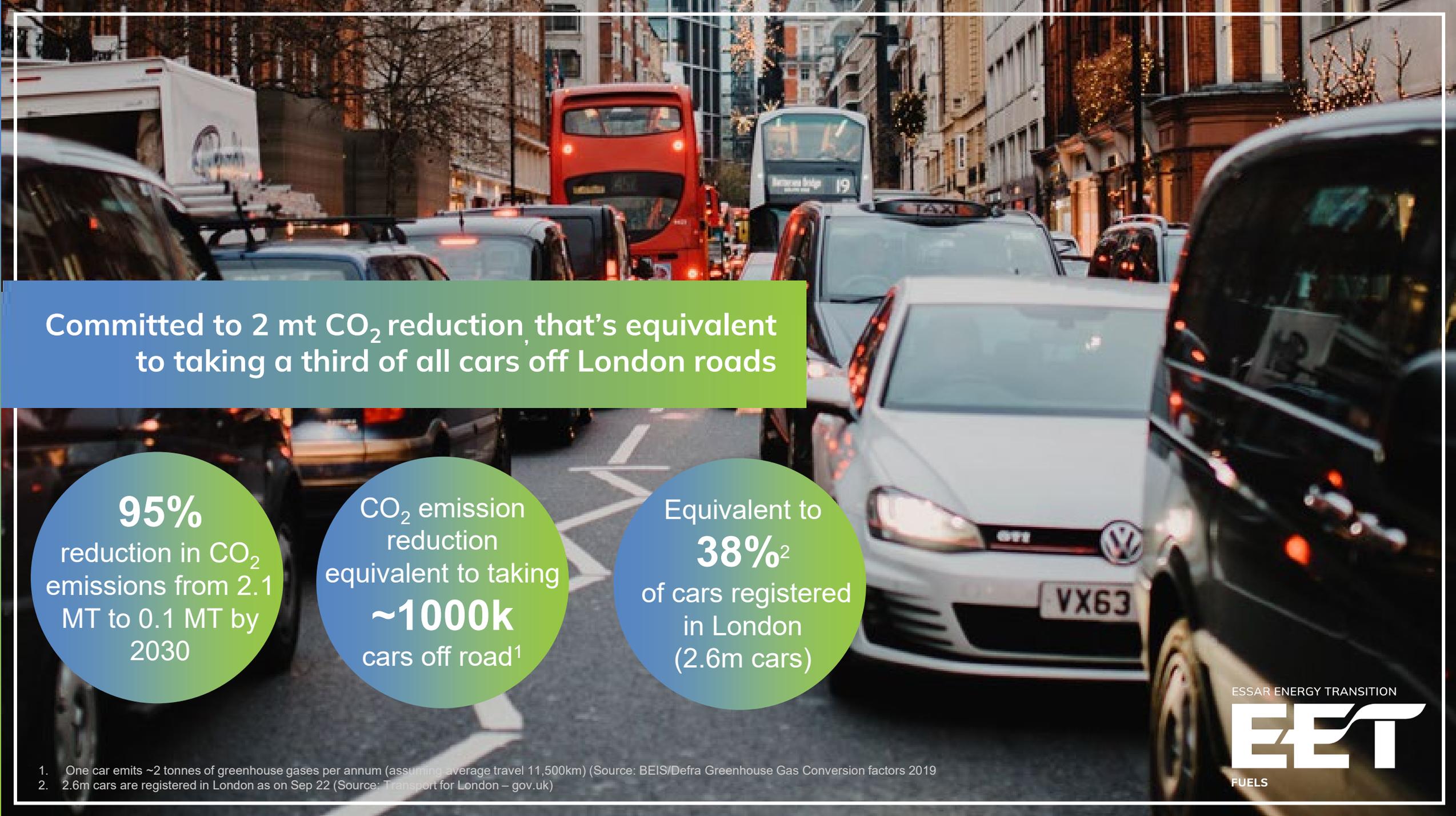
~ \$100m invested in refinery decarbonisation projects over the last four years and estimated £1.2bn by 2030

- Hydrogen fuel switching projects
- Targeted energy efficiency projects
- Hydrogen-ready CHP project
- ICC project

Delivery of our energy transition projects – next steps



ROG – Refinery off gas
 LPG – Liquid Petroleum Gas
 NG – Natural Gas
 CHP - Combined Heat and Power
 HPP - Hydrogen Production Plant



Committed to 2 mt CO₂ reduction, that's equivalent to taking a third of all cars off London roads

95%
reduction in CO₂
emissions from 2.1
MT to 0.1 MT by
2030

CO₂ emission
reduction
equivalent to taking
~1000k
cars off road¹

Equivalent to
38%²
of cars registered
in London
(2.6m cars)

1. One car emits ~2 tonnes of greenhouse gases per annum (assuming average travel 11,500km) (Source: BEIS/Defra Greenhouse Gas Conversion factors 2019)
2. 2.6m cars are registered in London as on Sep 22 (Source: Transport for London – gov.uk)

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Project details

Crude distiller furnace switch to hydrogen fuel

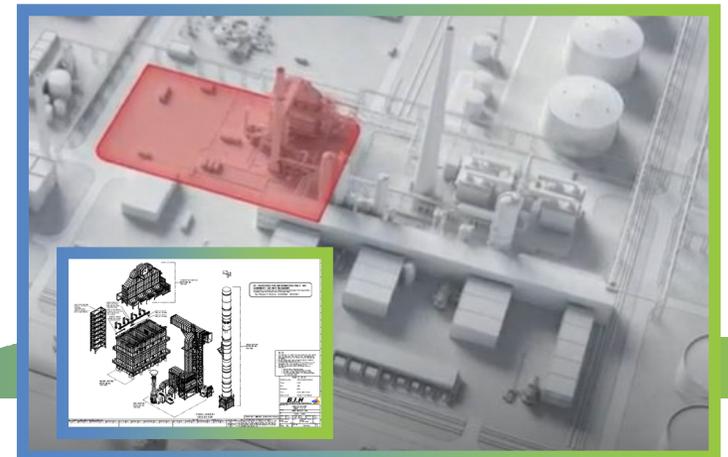
First hydrogen-ready furnace installed at any UK refinery

Capable of running on 100% H₂ or a fuel gas mix. Reduced carbon emissions by 0.02 MTPA from start-up with standard refinery fuel

Further reduction of CO₂ emissions by 0.2 million tonnes per year, once running on hydrogen from EET Hydrogen's Production Plant

Hydrogen is then available to **enable the fuel switching** of all fired-heaters on site and the new set of H₂-ready CHP modules

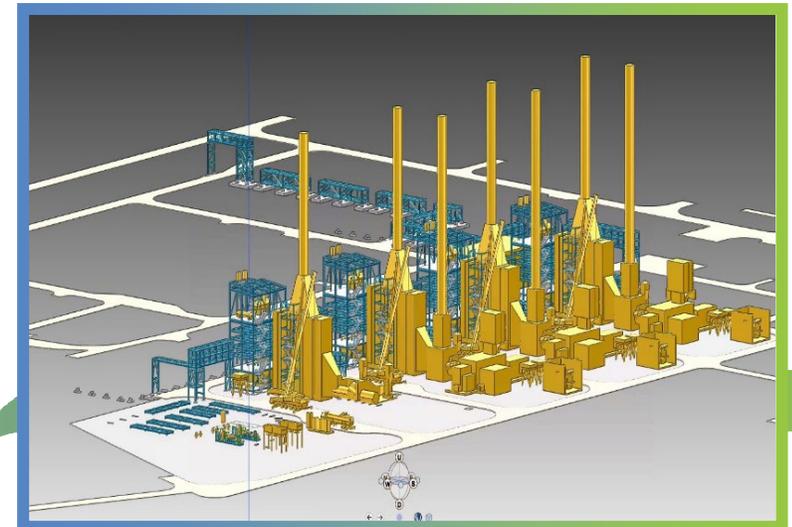
Other process fired-heaters will require retrofit, but not replacement. Project saves an additional 0.4 million tonnes per year of CO₂



Combined Heat and Power switch to hydrogen fuel

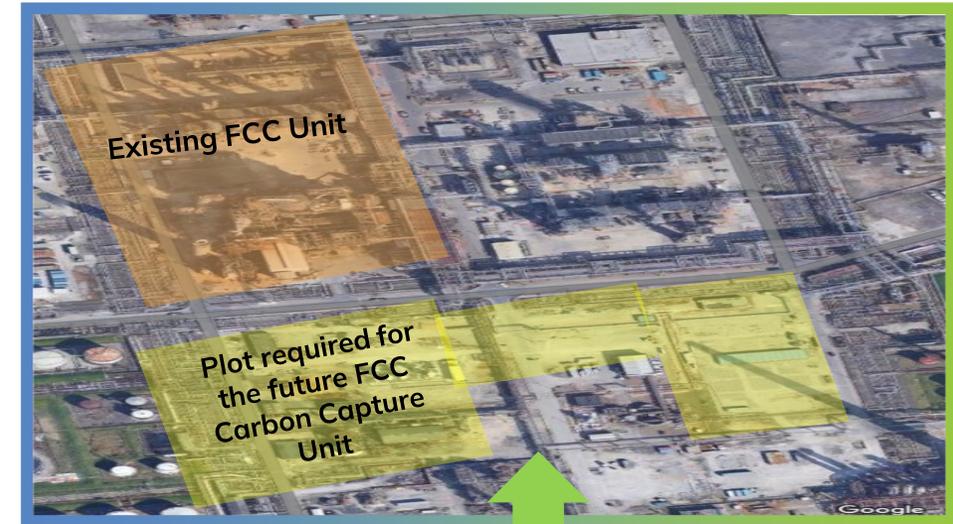
Low carbon CHP will replace existing CHP to rebalance future steam & power needs

- Stanlow refinery generates its own steam & power from its existing CHP, but imports a small amount of grid power
- Existing CHP modules are to be phased out and new hydrogen-ready modules brought online
- Generation of power will come from high efficiency 100% H₂ gas turbines, instead of inefficient steam turbines
- CO₂ savings from CHP is 0.4 million tonnes per year
- The first phase of the hydrogen-ready CHP project with the new hydrogen-ready crude distiller furnace will enable the full offtake of hydrogen from EET Hydrogen's HPP1 plus some energy efficiency projects



FCC and ICC and storage to reduce ~43% of total CO₂ emissions fuel

- Stanlow has one of the largest Full Residue Fluid Catalytic Cracker (FCC) in Europe
- Now investing in a new carbon capture plant to capture CO₂ from the FCC unit
- CO₂ captured will be transported and stored through HyNet transport and storage infrastructure being developed by ENI
- Positive environmental impact (significant reduction in particulate matter, SO_x and NO_x to single digit ppm levels)
- Project scouting completed, pre-front end engineering and design (licensor selection) has been completed. Now progressing to FEED in 2024
- FID expected in 2025



Large land parcel required for the FCC carbon capture plant has been identified within Stanlow refinery complex

EET Fuels is leading the industry with a clear target to decarbonise manufacturing operations before the turn of the decade...





and setting a global benchmark for high emitting industries by developing the UK's first low carbon process refinery.

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