

ESSAR ENERGY TRANSITION

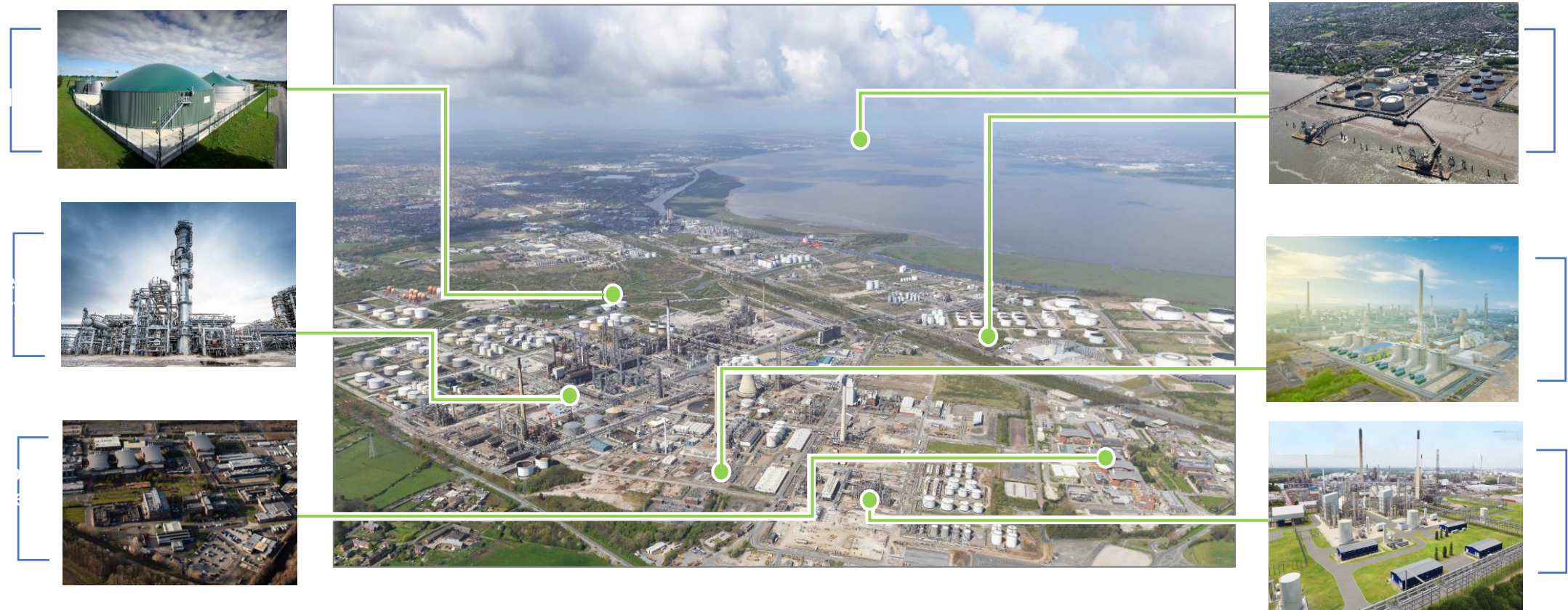


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Roadmap to decarbonisation

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 Stanlow Manufacturing Complex into one of Europe's largest energy transition hubs
- The combination of low carbon hydrogen production, refinery decarbonisation, e-fuels and biofuels with unrivalled infrastructure, expertise and EET's large land bank (c.900 acres) will facilitate the process
- EET has completed the purchase of Thornton Science Park, a key asset to the Cheshire Science Corridor, with a vision to serve as a significant innovations and skills hub for the region



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



EET is the only supplier of large-scale low carbon hydrogen within the HyNet 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

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



Delivering 95% decarbonisation

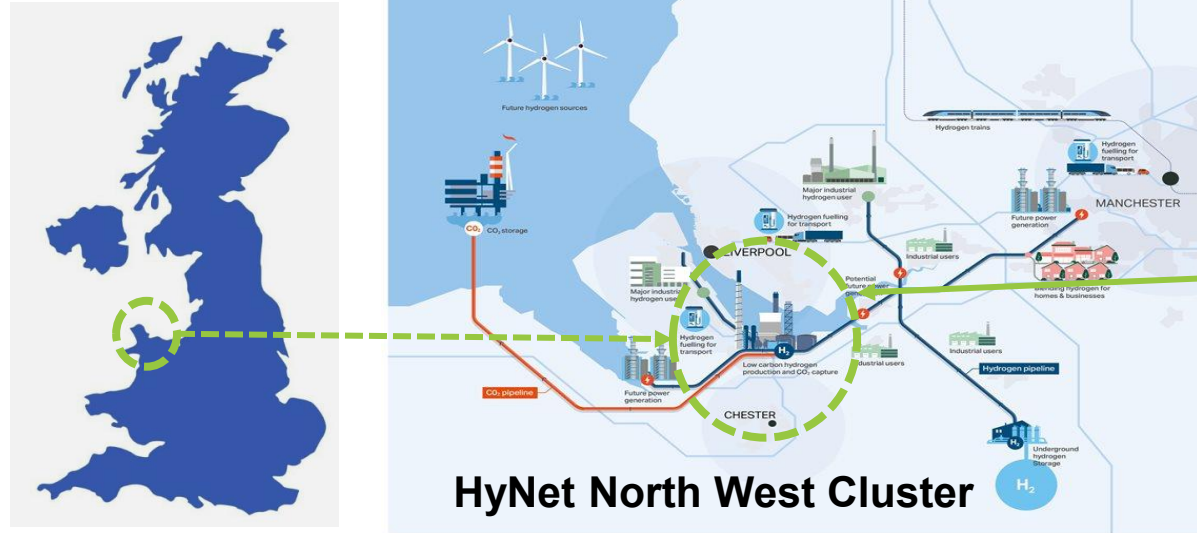


UK's first large-scale low carbon hydrogen production facility



Europe's first hydrogen-ready power plant

Our unique location

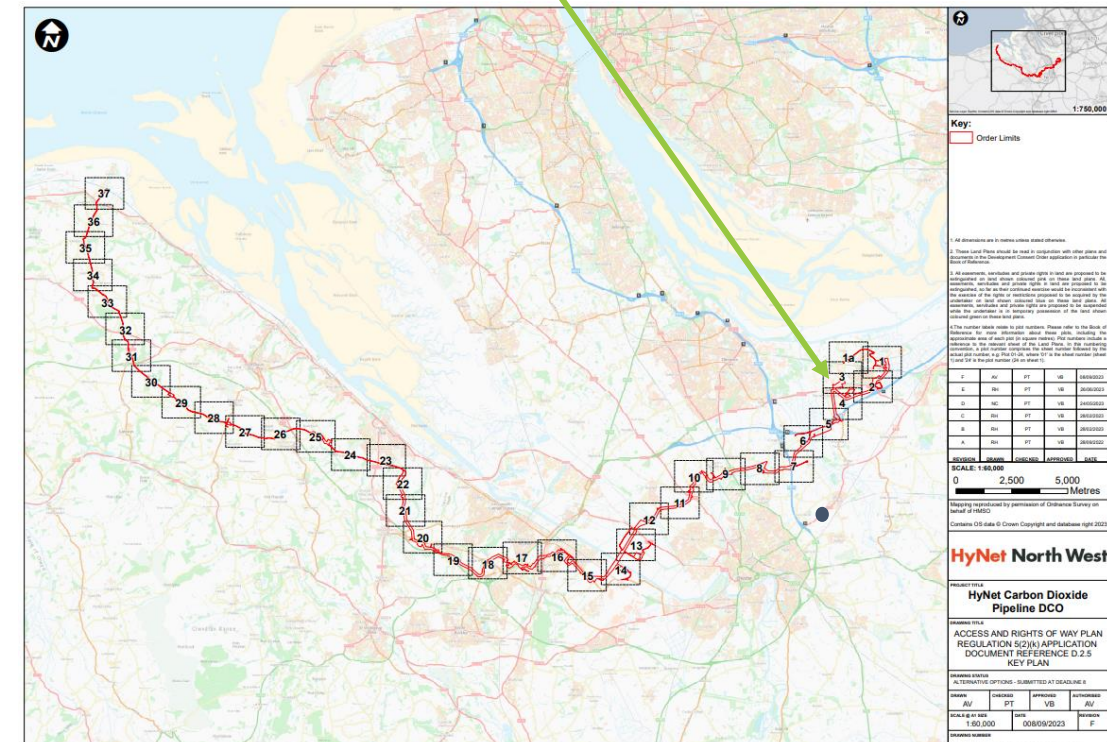


Key **Essar Energy Transition**, part of the wider Essar Group, at Stanlow, Cheshire, are at the heart of HyNet

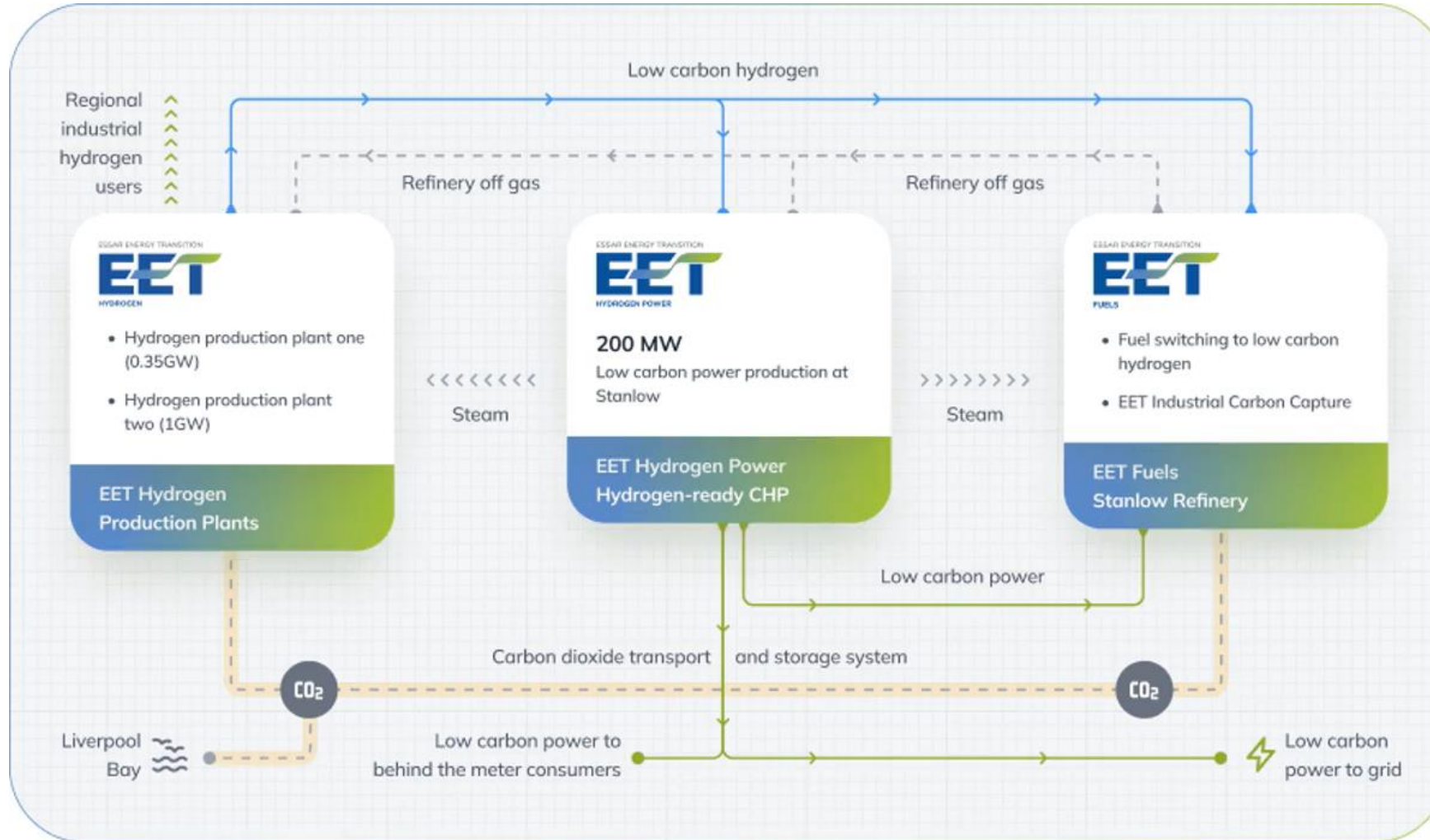


The **HyNet CO₂ pipeline**:

- Utilises repurposed natural gas pipelines and offshore depleted oil & gas fields in Liverpool Bay. Eni took final investment decision earlier in 2025
- Stanlow's connection point at the Above Ground Installation (AGI) located within the physical boundary of the site
- Makes Stanlow, the only refinery in Europe with a direct connection to a CO₂ pipeline that is consented and in construction





Decarbonisation plans - integrated strategy to reduce emissions

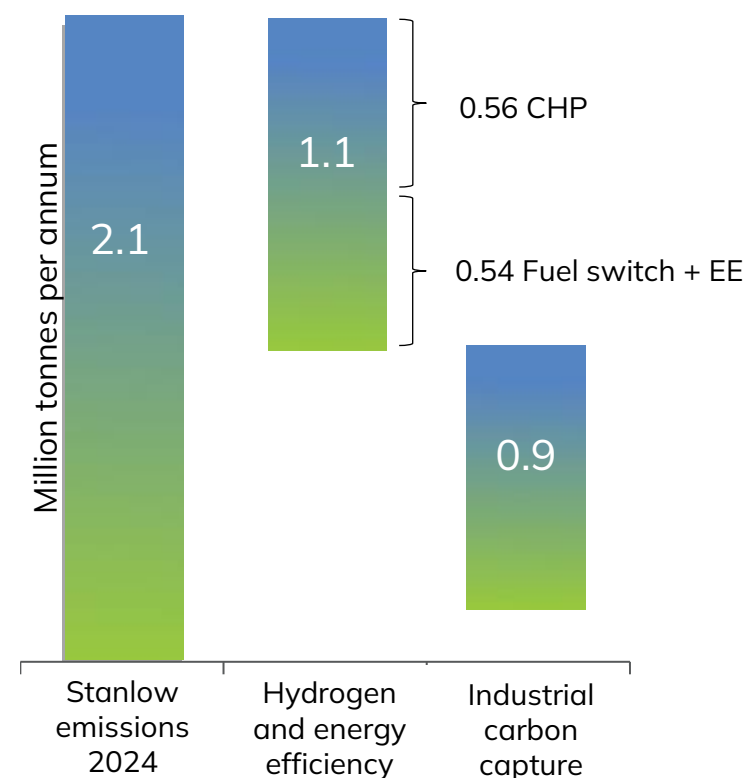


EET Fuels to deliver the UK's first low carbon process refinery

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

 <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 (EE) projects Investments are already underway with the hydrogen-ready crude distiller furnace 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 0.05 MTPA



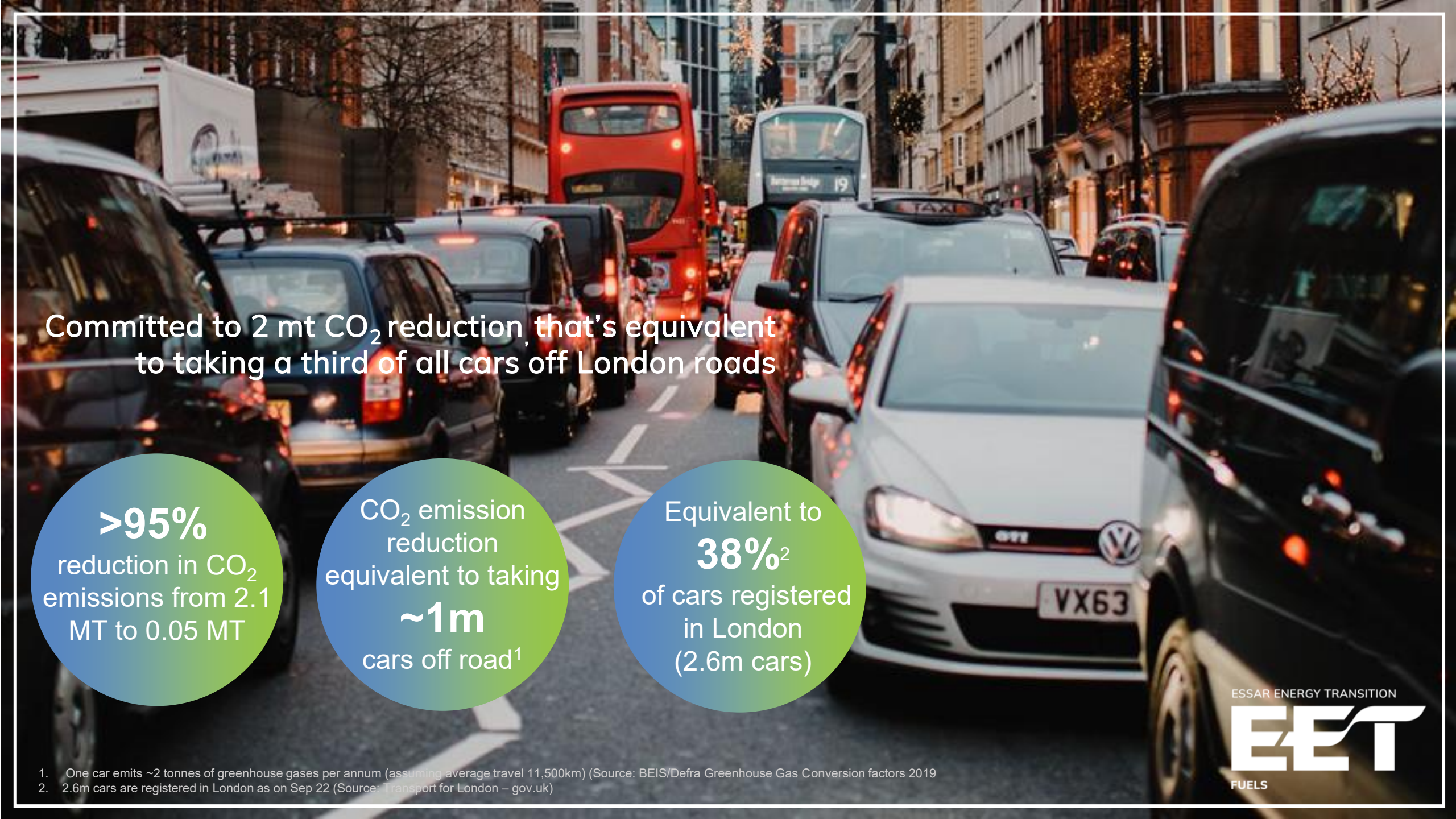
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First hydrogen-ready crude distiller furnace was commissioned in 2025, awaiting low carbon hydrogen production from EET Hydrogen





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 0.05 MT

CO₂ emission
reduction
equivalent to taking
~1m
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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EET Fuels' fired heaters fuel switching

FEED completed and being implemented in phases

Phase 1 has been completed after investing £71m in new Crude Distiller hydrogen-ready furnace commissioned in April 2025

Phase 2 (i.e. routing of hydrogen to refinery fuel gas and hydrogen mains) will be commissioned during prior to HPP1 start up

Phase 3 (i.e. retrofit of the remaining furnaces on site) to reach FID when HPP2 FID is reached.

Project Premise: any furnace is able to burn 100% fuel gas, 100% hydrogen and anything in between, enabling seamless transition from one fuel to the other

The project will reduce 570 KTPA of CO₂ of site's emissions when all 3 phases are completed



EET Hydrogen Power Combined Heat and Power plant

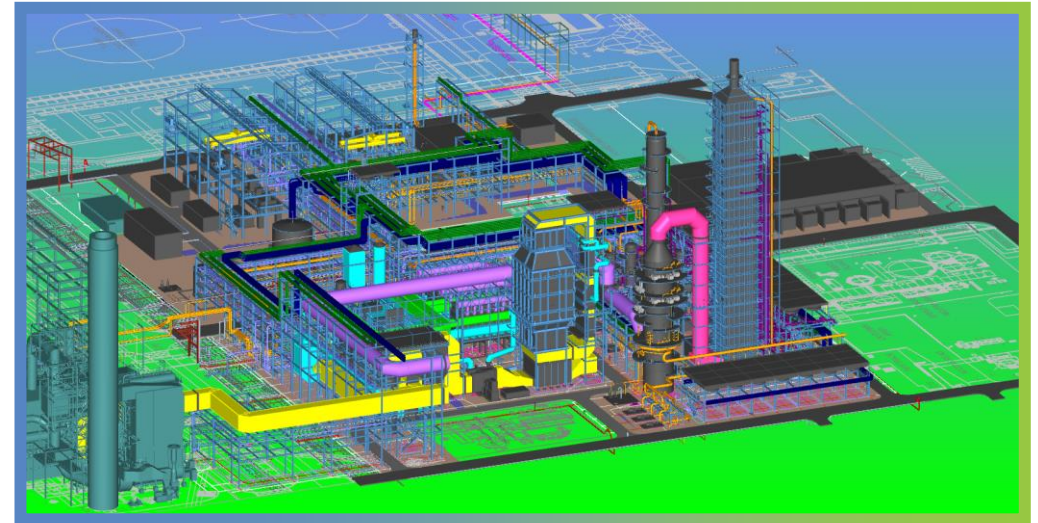
Low carbon CHP will replace existing CHP to rebalance future steam & power needs

- 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 EET Hydrogen Power CHP modules brought online
- Generation of power will come from high efficiency 100% hydrogen gas turbines connected to hydrogen-ready steam generators
- CO₂ savings from CHP1 is 0.3 MTPA and from CHP2 is 0.25 KTPA
- The first phase of EET Hydrogen Power CHP project with the new hydrogen-ready crude distiller furnace will enable the full offtake of hydrogen from EET Hydrogen's HPP1
- CHP Phase 1 & 2 will enable production of additional low carbon power for export and to enable energy efficiency projects at Stanlow refinery



EET ICC & Storage to reduce ~45% of total CO₂ emissions fuel

- Stanlow's full residue FCC is among the largest in Europe, offering a strong competitive edge but also driving high CO₂ emissions
- Licensor selection and Basic Engineering Design Packages have been completed in 2024
- The EET ICC plant to capture > 95% of the CO₂ from the FCC unit is close to completing its FEED phase
- Captured CO₂ will be transported and stored via HyNet's CO₂ infrastructure, currently under construction by ENI
- Significant environmental benefits, reducing particulate matter, SO_x, and NO_x to single-digit ppm levels.
- The project is listed in DESNZ's Track-1 Expansion PNL as a stand-by, awaiting CO₂ T&S capacity expansion to progress to FID.



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EET Fuels is leading the industry with a clear target to decarbonise manufacturing operations.





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

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