

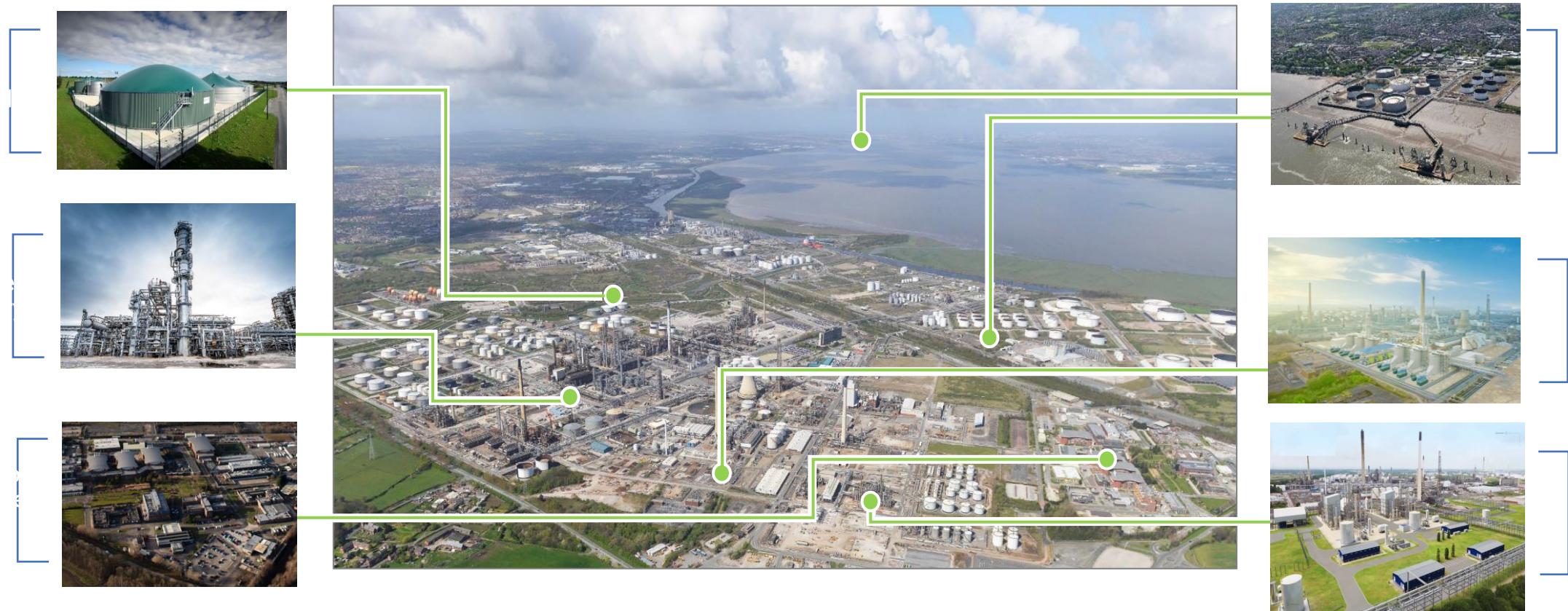
ESSAR ENERGY TRANSITION



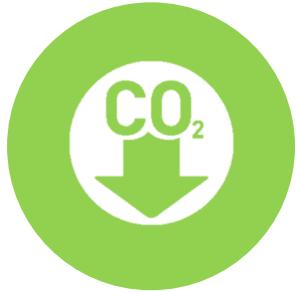
# Roadmap to decarbonisation

# 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 CO<sub>2</sub> 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

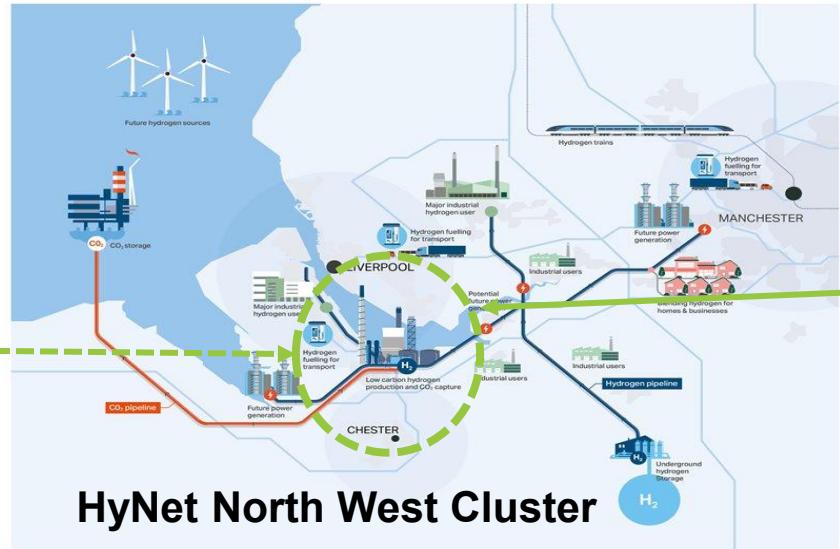


Delivering 95% decarbonisation

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

Europe's first hydrogen-ready power plant

## Our unique location

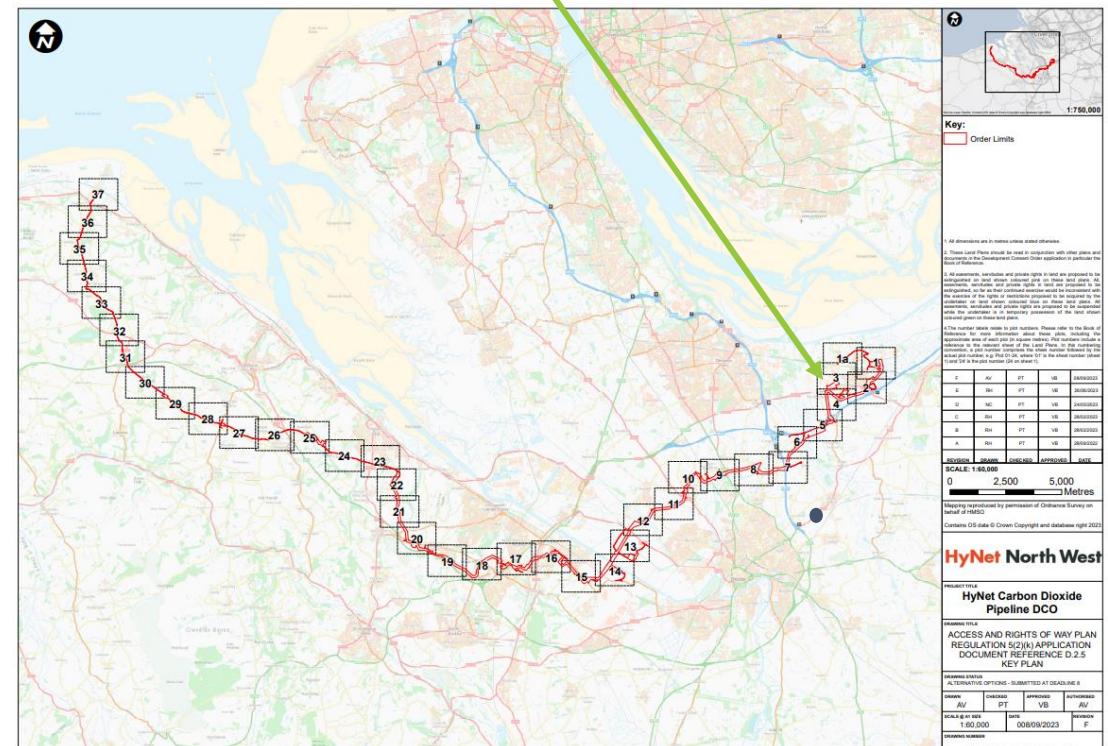


Key **Essar Energy Transition**, part of the wider Essar Group, at Stanlow, Cheshire, are at the heart of HyNet

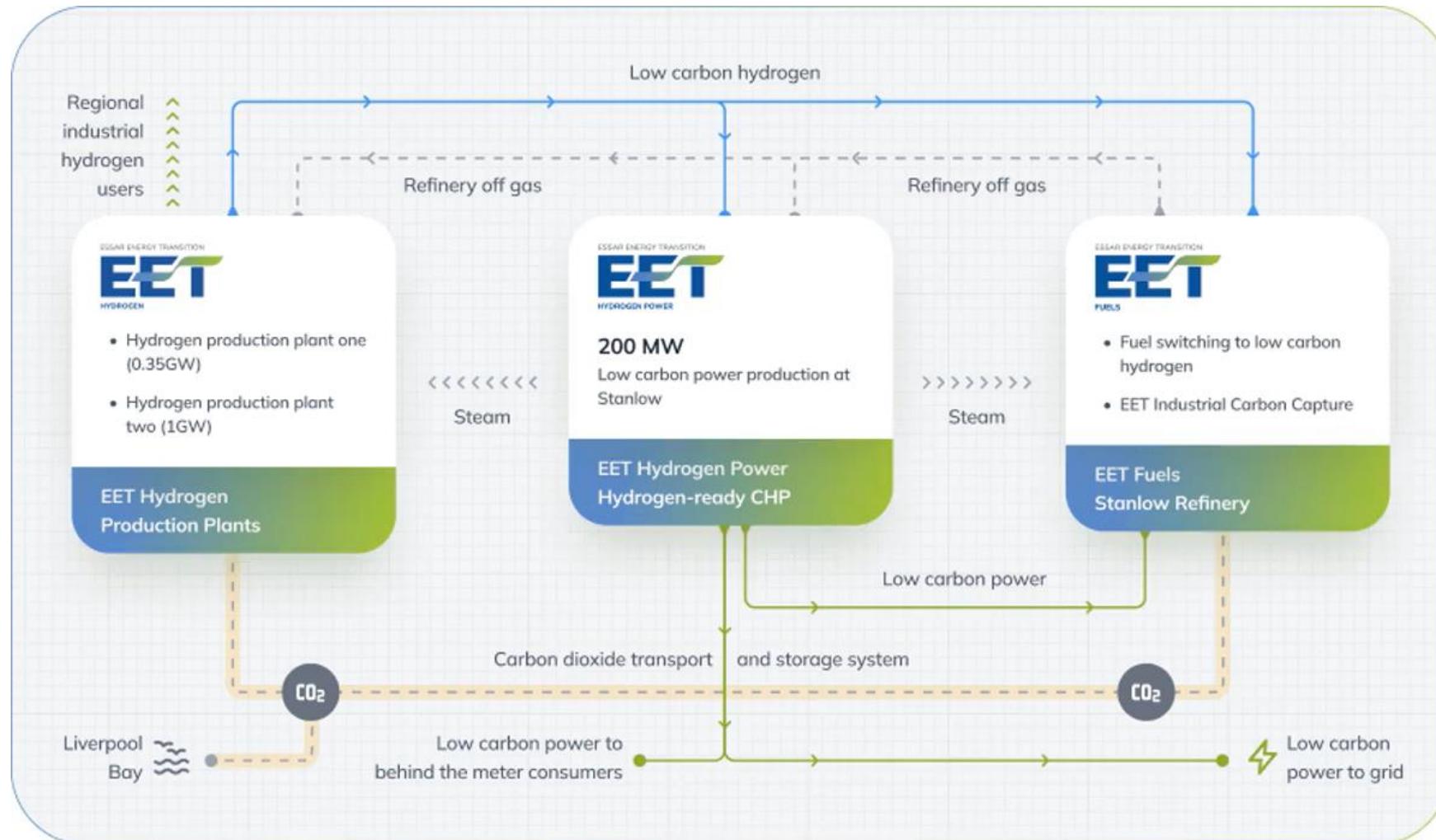


# The HyNet CO<sub>2</sub> pipeline:

- 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 CO<sub>2</sub> pipeline that is consented and in construction

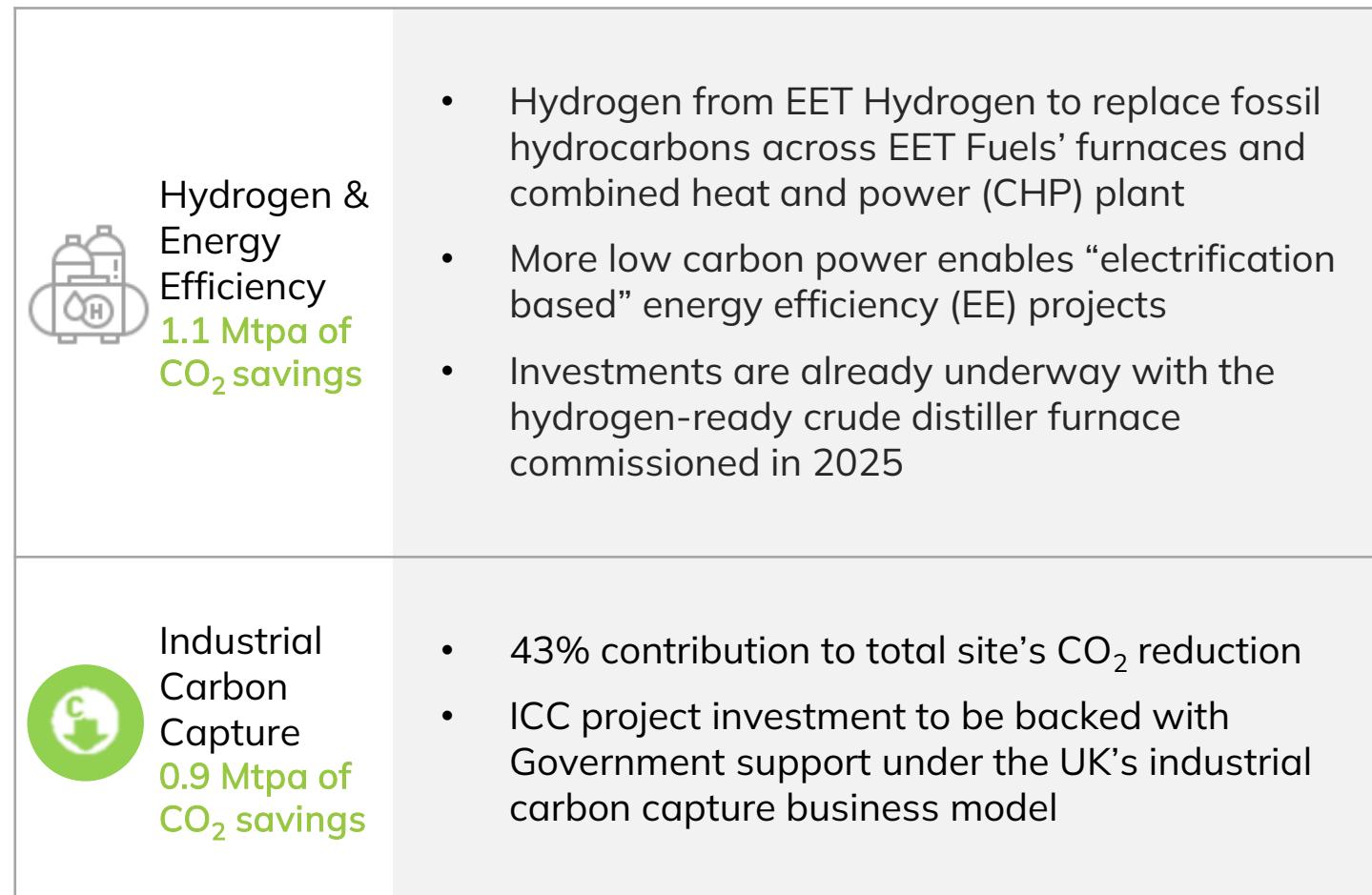


# Decarbonisation plans - integrated strategy to reduce emissions

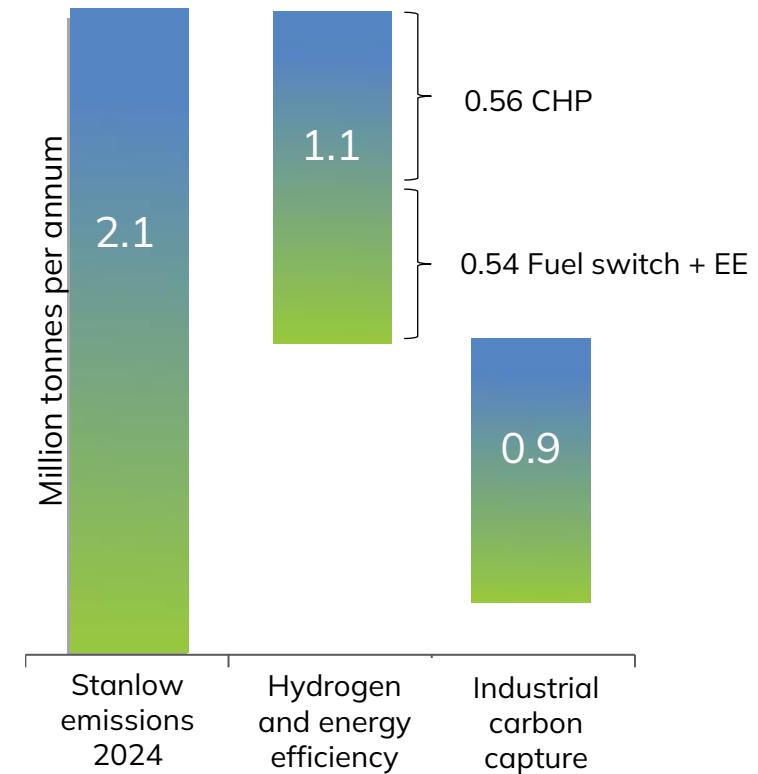


# EET Fuels to deliver the UK's first low carbon process refinery

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

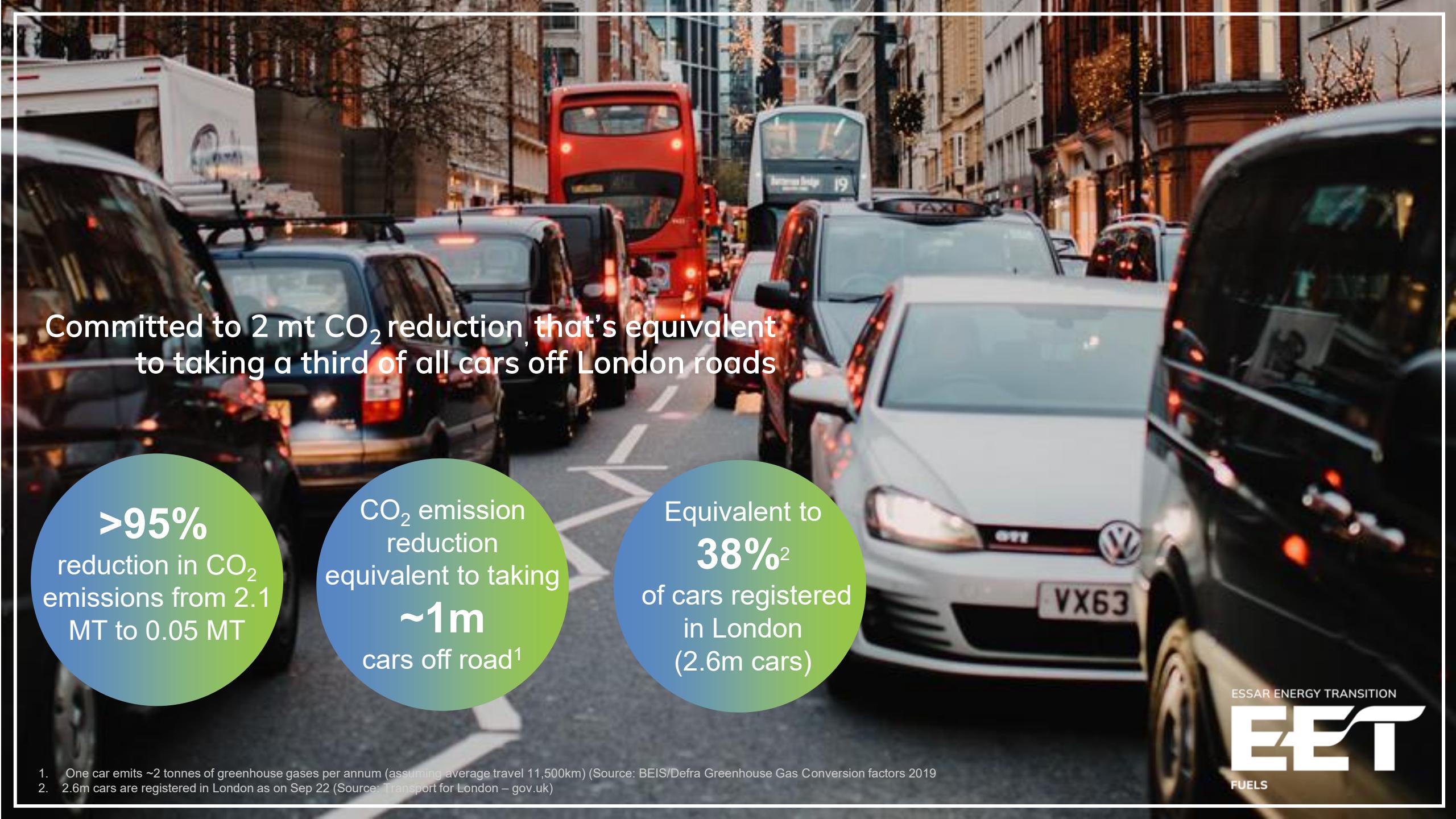


Carbon emissions to reduce from 2.1 MTPA to 0.05 MTPA



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





Committed to 2 mt CO<sub>2</sub> reduction, that's equivalent to taking a third of all cars off London roads

**>95%**  
reduction in CO<sub>2</sub> emissions from 2.1 MT to 0.05 MT

CO<sub>2</sub> emission reduction equivalent to taking **~1m** cars off road<sup>1</sup>

Equivalent to **38%<sup>2</sup>** 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)



# 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 CO<sub>2</sub> 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
- CO<sub>2</sub> 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 CO<sub>2</sub> emissions fuel

- Stanlow's full residue FCC is among the largest in Europe, offering a strong competitive edge but also driving high CO<sub>2</sub> emissions
- Licensor selection and Basic Engineering Design Packages have been completed in 2024
- The EET ICC plant to capture > 95% of the CO<sub>2</sub> from the FCC unit is close to completing its FEED phase
- Captured CO<sub>2</sub> will be transported and stored via HyNet's CO<sub>2</sub> infrastructure, currently under construction by ENI
- Significant environmental benefits, reducing particulate matter, SOx, and NOx to single-digit ppm levels.
- The project is listed in DESNZ's Track-1 Expansion PNL as a stand-by, awaiting CO<sub>2</sub> T&S capacity expansion to progress to FID.



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!

ESSAR ENERGY TRANSITION

**EET**  
FUELS

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