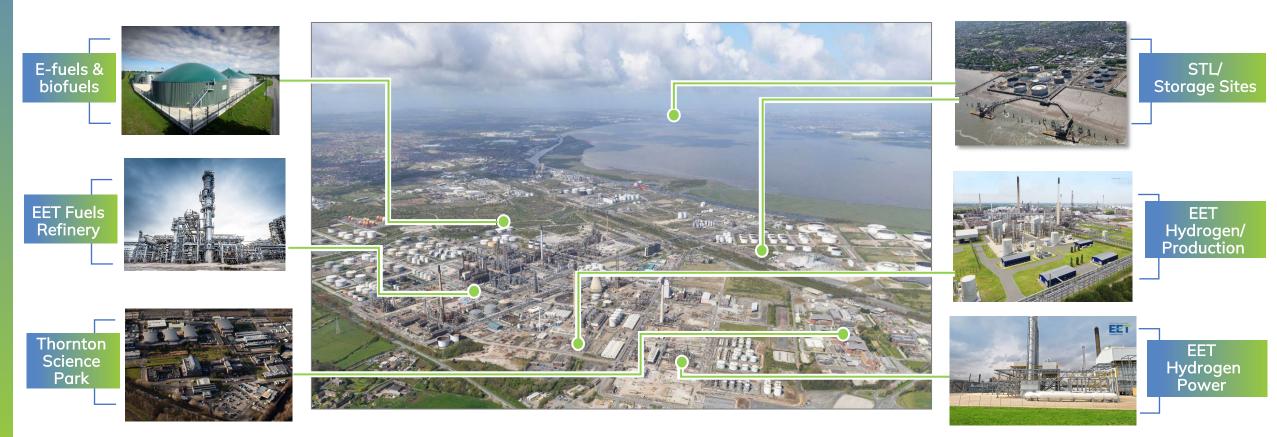




Roadmap to decarbonisation

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

- ESSAR ENERGY TRANSITION
- 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
- EET has signed a sale and purchase agreement to acquire Thornton Science Park



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 cluster through its subsidiary EET Hydrogen

EET Fuels is the largest industrial CO_2 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

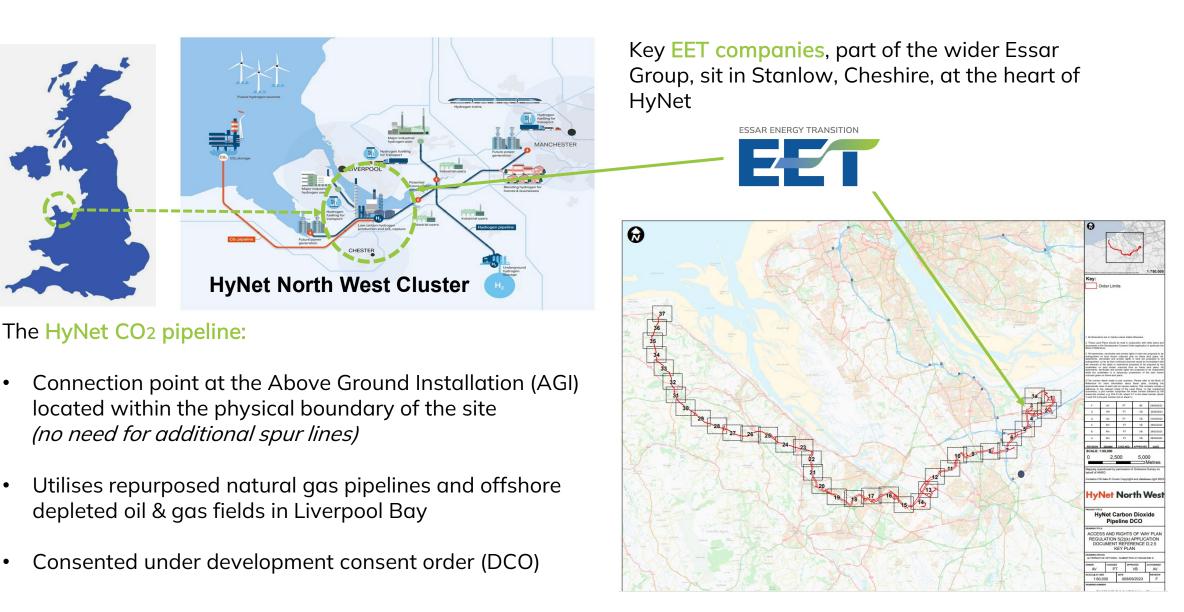


Our unique location

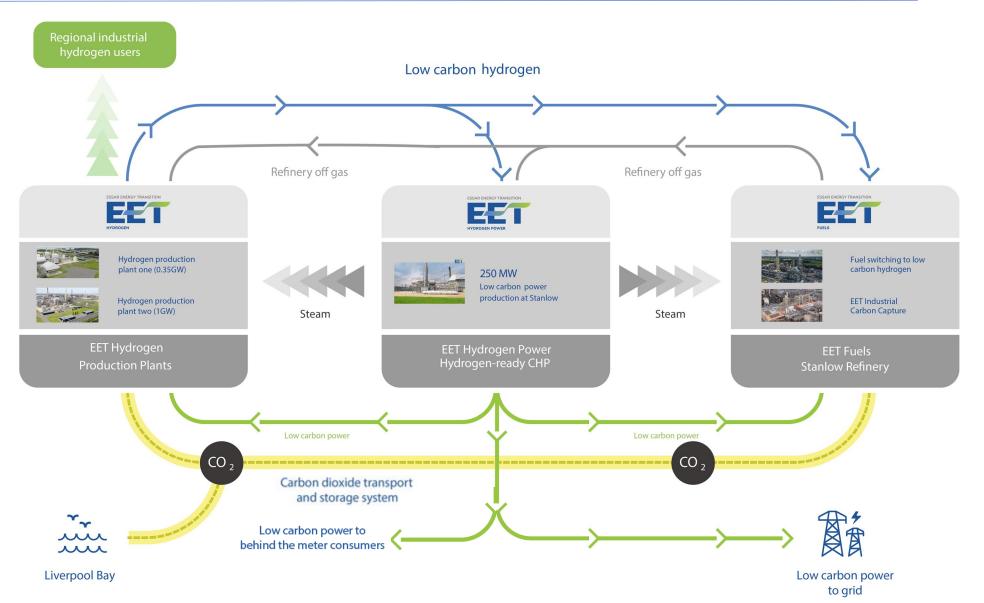
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Decarbonisation plans - integrated strategy to reduce emissions



ESSAR ENERGY TRANSITION

Hydrogen &

Energy

Efficiency

1.1 Mtpa of

CO₂ savings

Industrial

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Carbon

Capture

0.9 Mtpa of

CO₂ savings

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

 Hydrogen from EET Hydrogen to replace fossil hydrocarbons across EET Fuels' furnaces and combined heat and power (CHP) plant

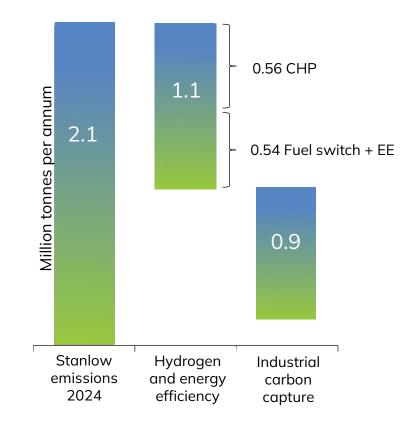
• More low carbon power enables "electrification based" energy efficiency (EE) projects

• Investments are already underway with the hydrogen-ready crude distiller furnace being commissioned in 2025

• 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





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

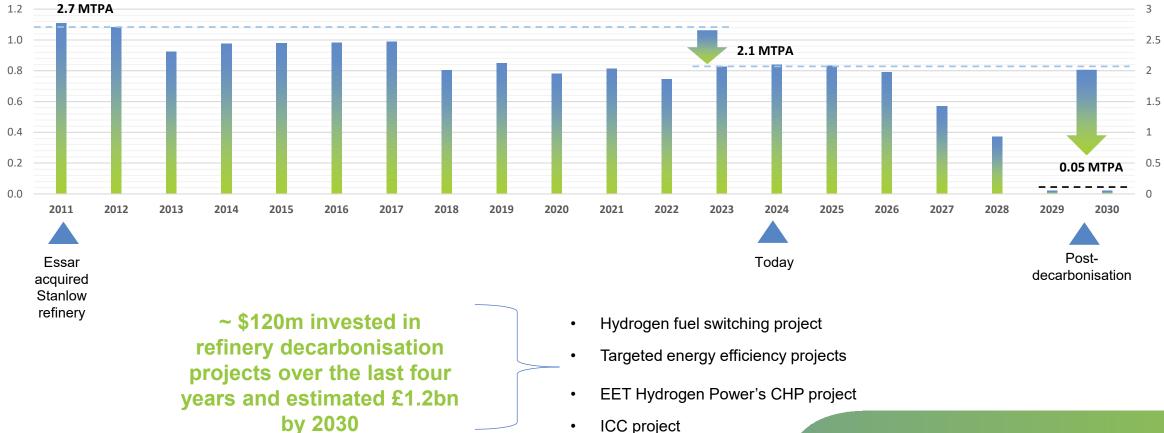


ESSAR ENERGY TRANSITIO

FUELS

Decarbonisation progress and plan ahead





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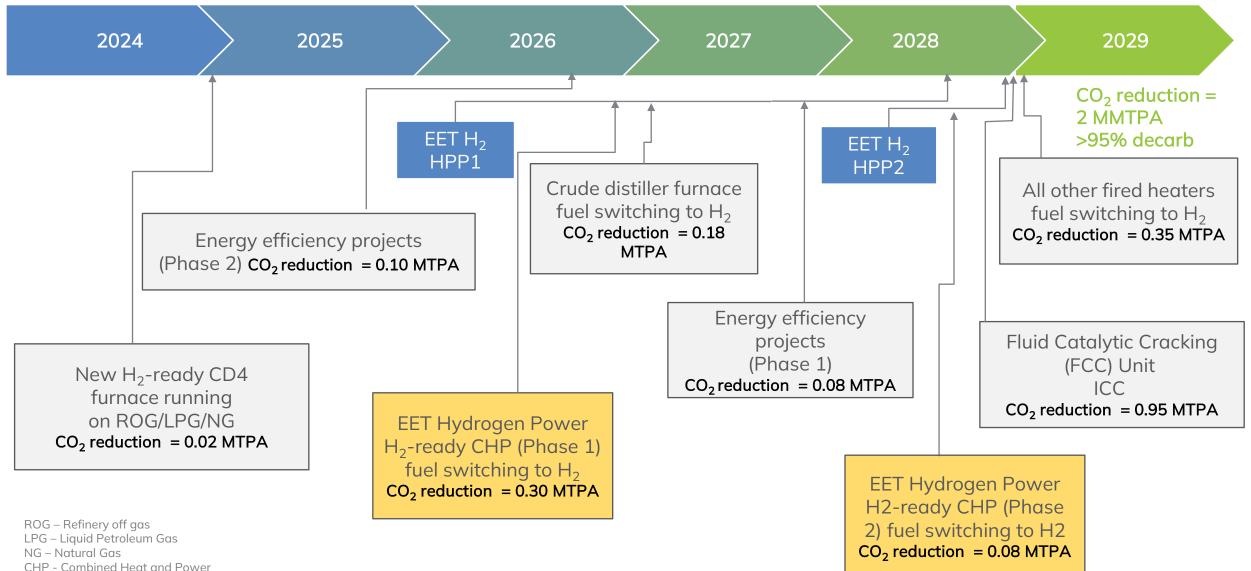
ICC project

ESSAR ENERGY TRANSITION

FUELS

Delivery of our energy transition projects – next steps





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 0.05 MT by 2030 CO₂ emission reduction equivalent to taking ~1m cars off road¹ Equivalent to **38%**² of cars registered in London (2.6m cars)

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

UELS

ENERGY TRANSITION

VX63



Project details

Crude distiller furnace switch to hydrogen fuel

First hydrogen-ready furnace installed at any UK refinery

Capable of running on 100% $\rm H_2$ or a fuel gas mix. Reduced carbon emissions by 0.02 MTPA from start-up with standard refinery fuel

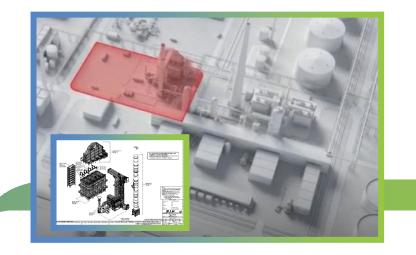
Further reduction of CO_2 emissions by 0.18 MTPA, once running on hydrogen from EET Hydrogen's Production Plant

Hydrogen is then available to **enable the fuel switching** of all firedheaters on site and the new set of EET Hydrogen Power'S CHP modules

Other process fired-heaters will require retrofit, but not replacement. Project saves an additional 0.4 MTPA of CO_2

MTPA = million tons per annum







EET Hydrogen Power Combined Heat and Power plant



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

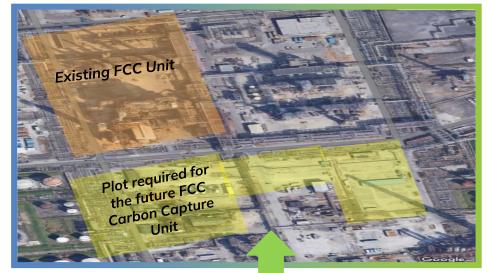
- Stanlow refinery generates its own steam & power from its existing CHP, but imports a small amount of grid power
- Existing CHP modules are to be phased out and new EET Hydrogen Power CHP modules brought online
- Generation of power will come from high efficiency 100% H_2 gas turbines, instead of inefficient steam turbines
- CO₂ savings from CHP is 0.4 MTPA
- 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 plus some energy efficiency projects





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

- Stanlow has one of the largest Full Residue Fluid Catalytic Cracker (FCC) in Europe
- Now investing in a new EET Industrial Carbon Capture plant to capture CO_2 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, SOx and NOx to single digit ppm levels)
- Project scouting, pre-front end engineering and design and licensor selection has been completed. Now progressing to Licensors Basic Engineering Design Packages and FEED
- 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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To find out more: communications@eetfuels.com