IENE 26th National Conference on Energy & Development

New Technologies-Hydrogen, Green Fuels, Biomethane, CCUS

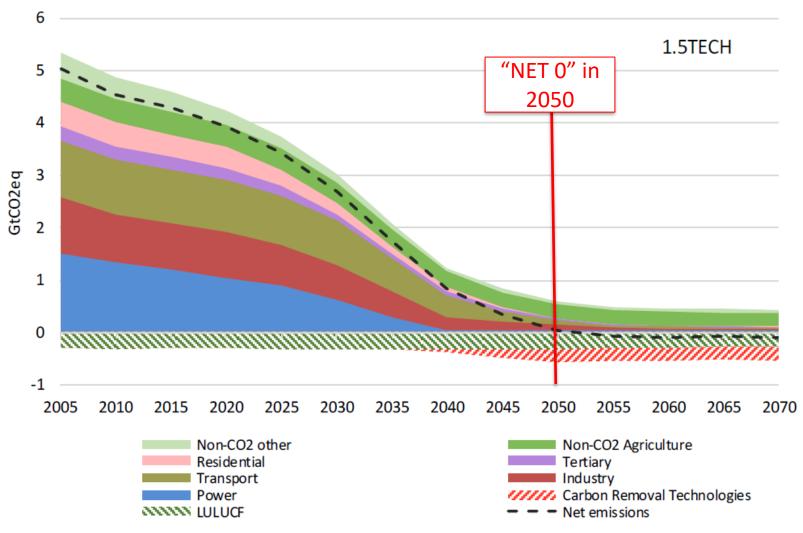
John Cooper – Director General

23 November 2022





The Commission strategy for 2050 is based on the 1.5 C Tech scenario of "Clean Planet for All"*





EU refining industry 2050 potential scenario TRANSPORT (% GHG red. vs 100% fossil) -100 Mt CO_s/ year REDUCTION 2035 2020 2030 2050 2037 2031 2039 2043 Up to 30 Mtoe **Total volume LCF** investment Up to 150 Mtoe. Cumulative Billion € 30 to 40 B€ (Transport) Total investment B€ 400 to 650 B€ 700 14 Mtoe 15 Mtoe o B€ Biofuels 600 15 Mtoe 1st generation 500 10 Mtoe 5 Mtoe P Hydrotreated 2.5 to 3 B€ 400 Vegetable Oils Up to 10 Mtoe 300 4 Mtoe 25 B€ residues + waste Up to 4 Mtoe 200 1 Mtoe 100

Lignocellulosic

CCS and Clean H.

Estimated share

of production levels

HVO

efuels



efuels

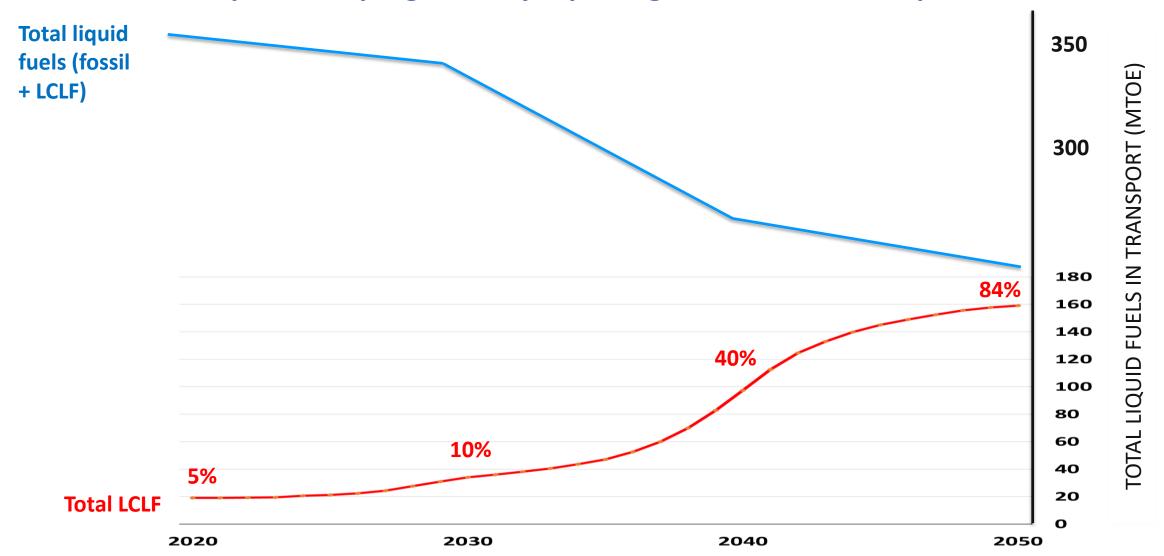
Refining CCS, Clean H, 3.3 B€

6 to 7 B€

Up to 1 Mtoe

B

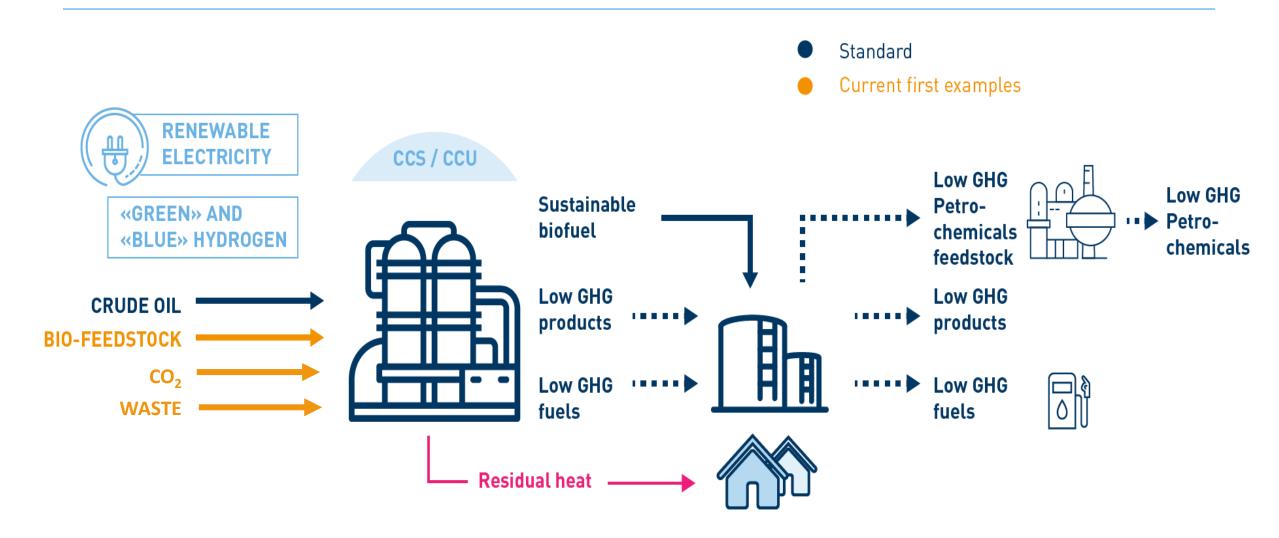
Low-carbon liquid fuels progressively replacing fossil fuels in transport



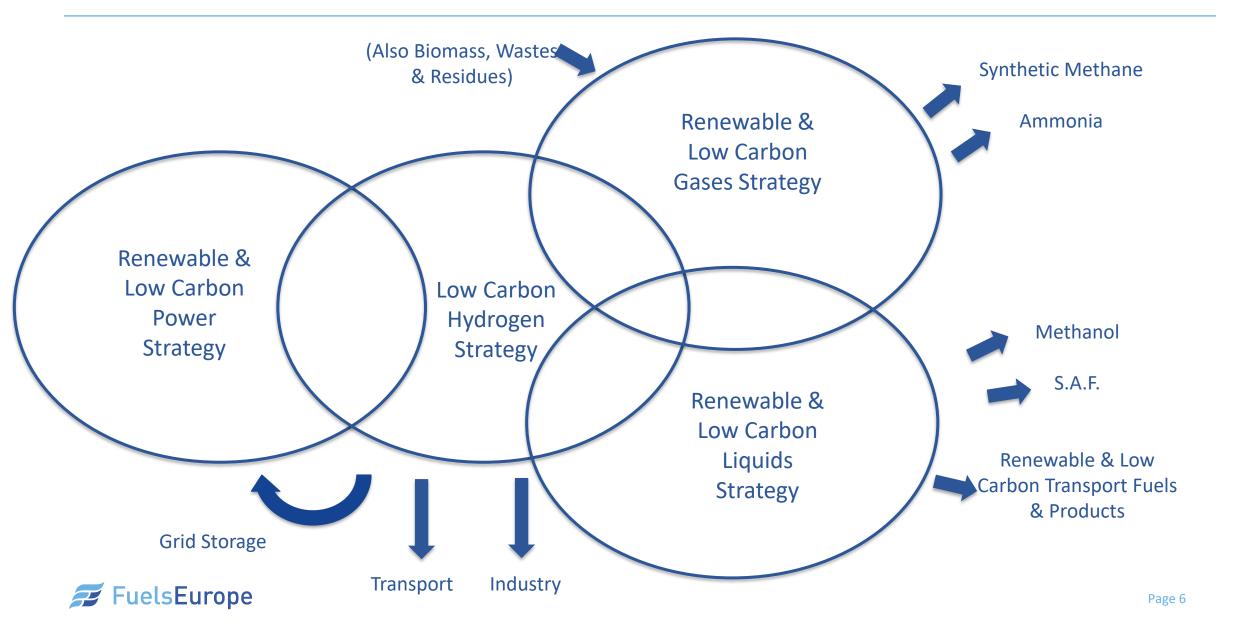
FuelsEurope's elaboration, based on Concawe's scenario assuming LCLF in all transport modes.



The refinery is already transitioning to an ENERGY HUB



Energy Strategy for Low Carbon & Supply Security



Thank you for your attention More information can be found on

www.fuelseurope.eu www.cleanfuelsforall.eu



