

A CLIMATE NEUTRAL EU IN 2050: SIGNIFICANT CHANGES AHEAD

Major technical, economic, political and social action



EU Scenario *Sketch*: a possible timeline to 2050, Energy System Emissions Mt CO₂/year



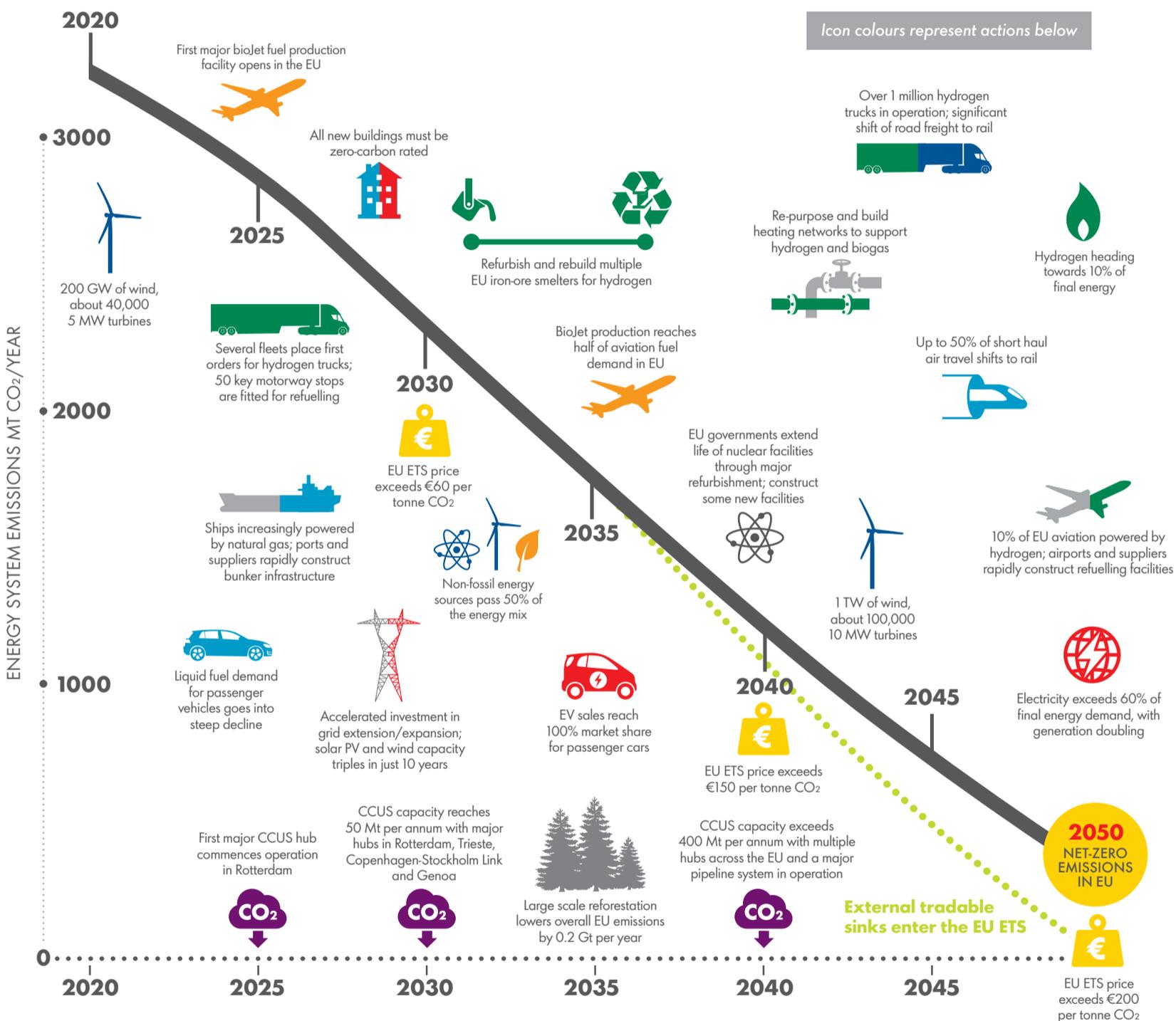
EU and other national governments working with businesses to coordinate **action across sectoral value chains** such as aviation, shipping and heavy industry to support the mass deployment of clean technologies



EU Climate Law is passed, legally committing the EU to being climate neutral by 2050 and providing a **coherent and credible policy framework** that brings predictability and consistency over time



The Just Transition Mechanism is implemented as part of the Green Deal, mobilising at least €150 billion in investments between 2021-27 to **deliver a fair and just green transition**



Shell welcomes the European Green Deal and supports the target to achieve climate neutrality in the EU by 2050.

Learn more at www.shell.com/eusketch

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AREAS OF ACTION TO DECARBONIZE EU ENERGY IN THE NEXT 30 YEARS:

ACCELERATE CLEAN TECHNOLOGIES

- Double the generation of electricity, triple its share of final energy
- Shift the electricity mix to 75% renewables, no coal
- Target 10% hydrogen in final energy, including as a fuel for heating, industry and heavy transport
- Triple the use of biofuels, with a shift to advanced forms

TARGET BEHAVIOURAL INCENTIVES

- Invest in infrastructure to improve energy efficiency per unit of GDP by almost 45%
- Incentivise green consumer and business choices in support of the green economy
- Progressively raise the government-led carbon price in the EU to more than €200 per tonne of CO₂ equivalent in 2050

REMOVE EMISSIONS

- Build at least two major CCUS facilities every month (more than one million tonnes each)
- Reforest at least 220,000 square kilometres in the EU (about half the area of Spain) to remove the remaining 300 million tonnes of carbon dioxide in 2050

Scenarios don't describe what will happen, or what should happen, rather they explore what could happen and are not predictions. It is important to note that as of 16 April, 2020 Shell's operating plans and budgets do not reflect Shell's Net-Zero Emissions ambition. Read our full cautionary note www.shell.com/eusketch