







Workshop
« Bioenergy in a Net
Zero Future »

CO₂ potential of advanced biofuels

Jean-Philippe HERAUD

19/10/2023



ABOUT IFP ENERGIES NOUVELLES







An international scope in the fields of energy, transport and the environment



1,549 people



1,095 engineers and technicians dedicated to research



budget allocation in 2022



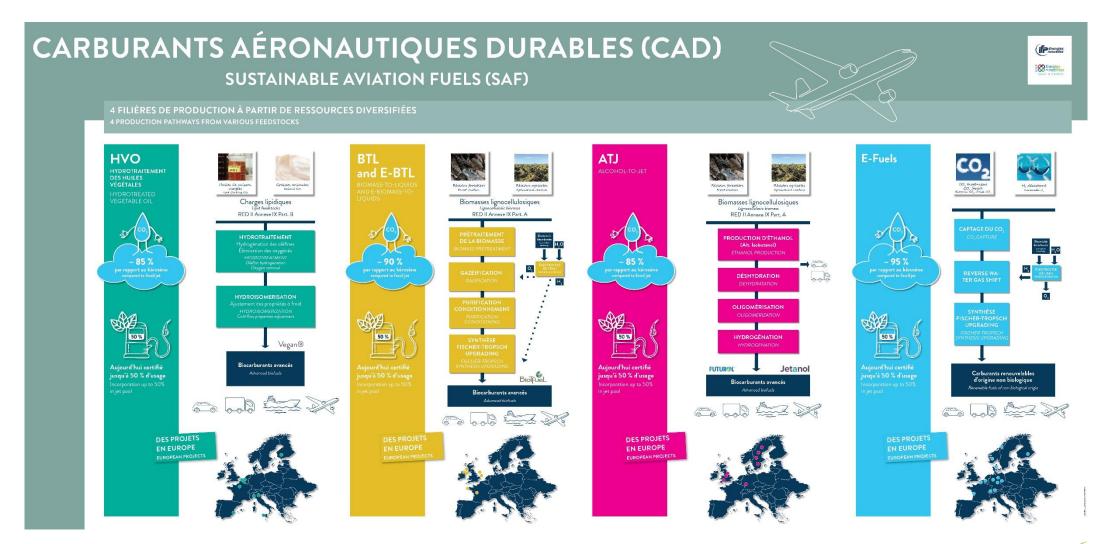
own resources in 2022







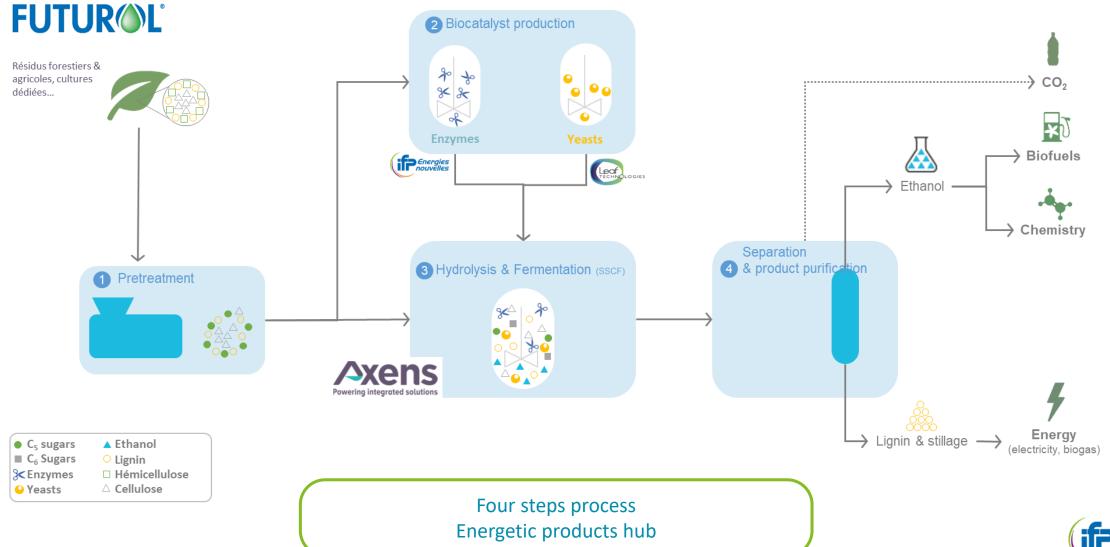
WHICH SYNERGY BETWEEN DIFFERENT PATHWAYS?





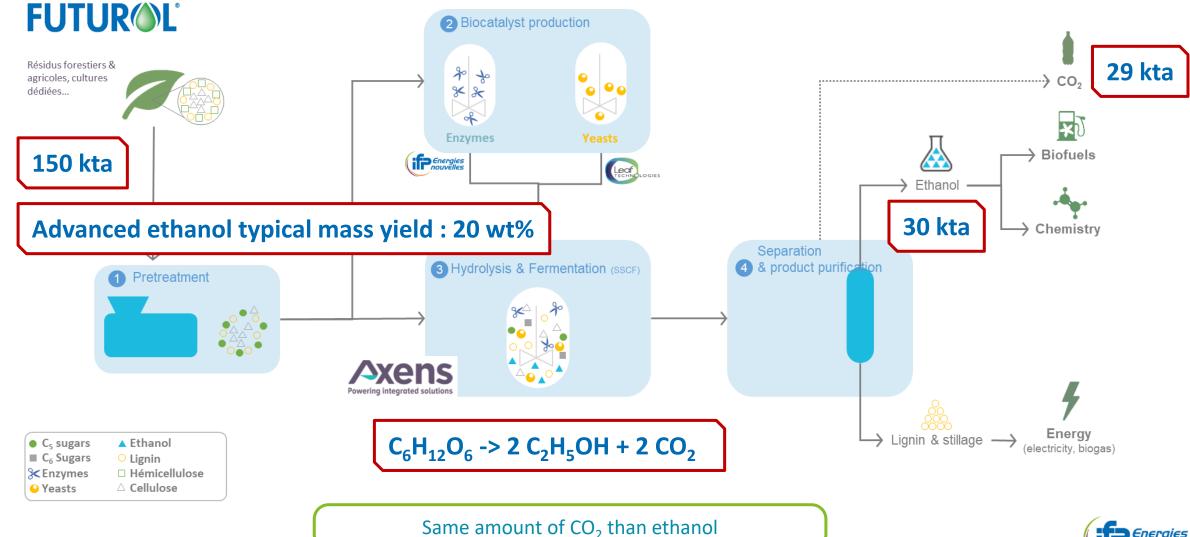
Renewable energies

CO2 FROM ADVANCED ETHANOL PRODUCTION

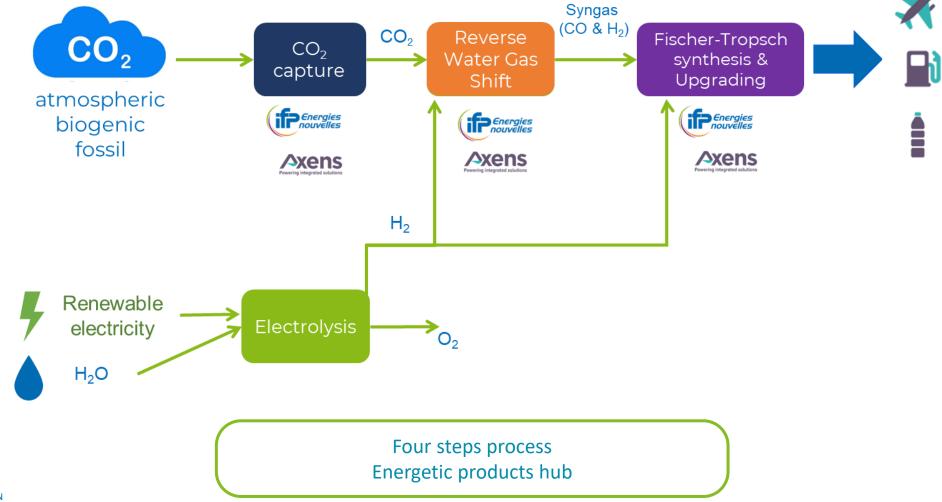


energies

CO2 FROM ADVANCED ETHANOL PRODUCTION



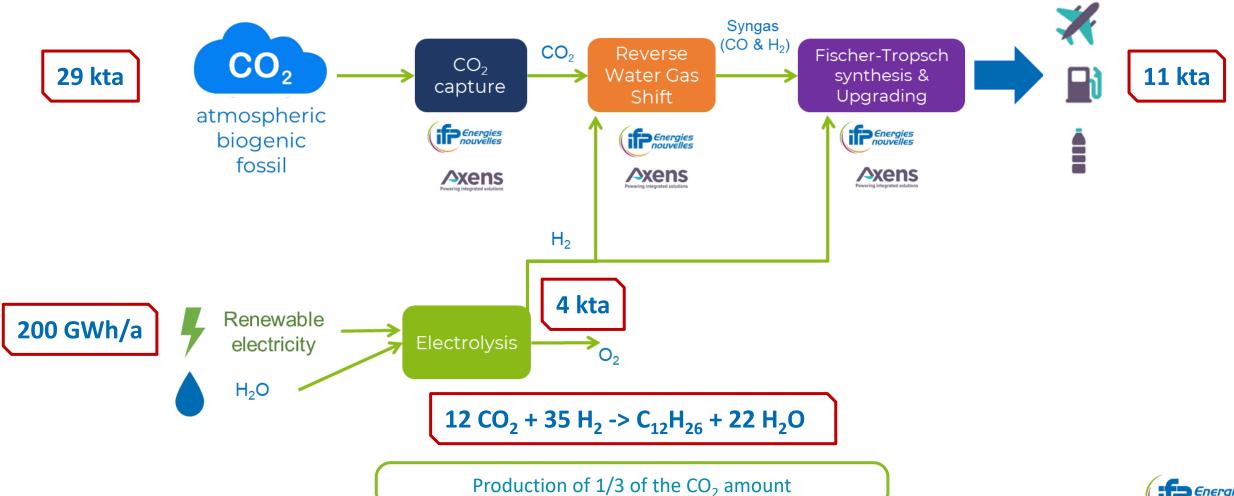
E-FUELS CO2 UTILIZATION





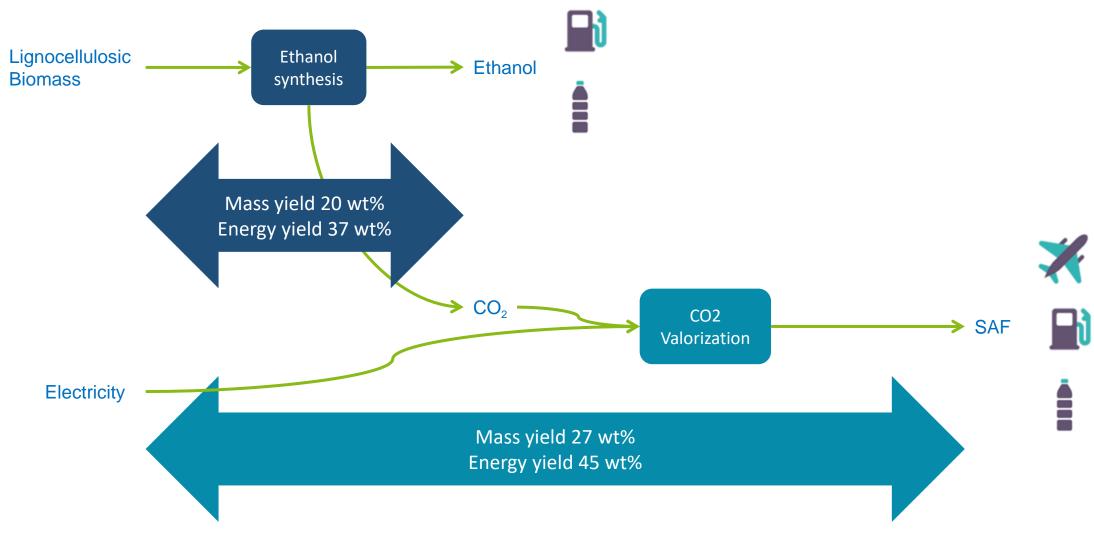
E-FUELS CO2 UTILIZATION







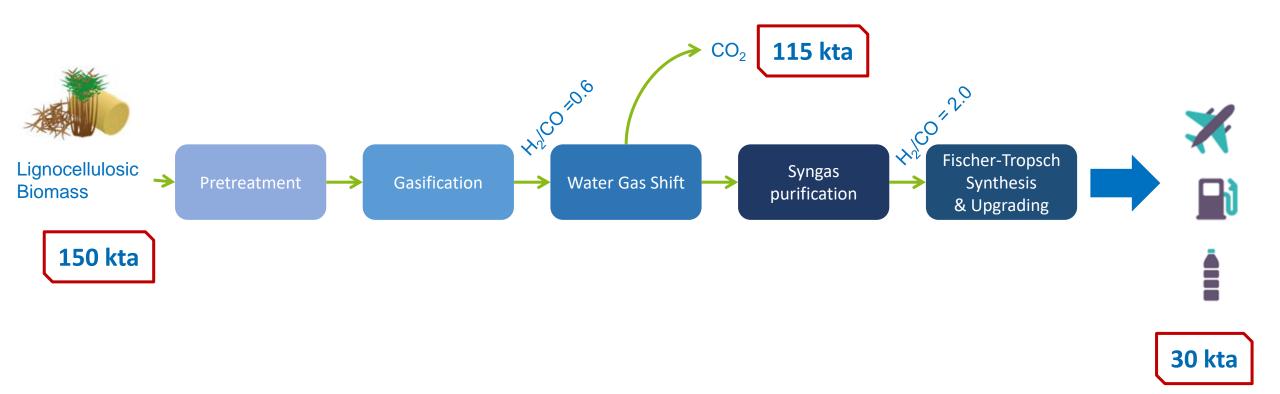
GOOD COMBINATION OF ETHANOL AND E-FUELS





THE E-BTL A WAY TO MAXIMISE BIOGENIC CARBON

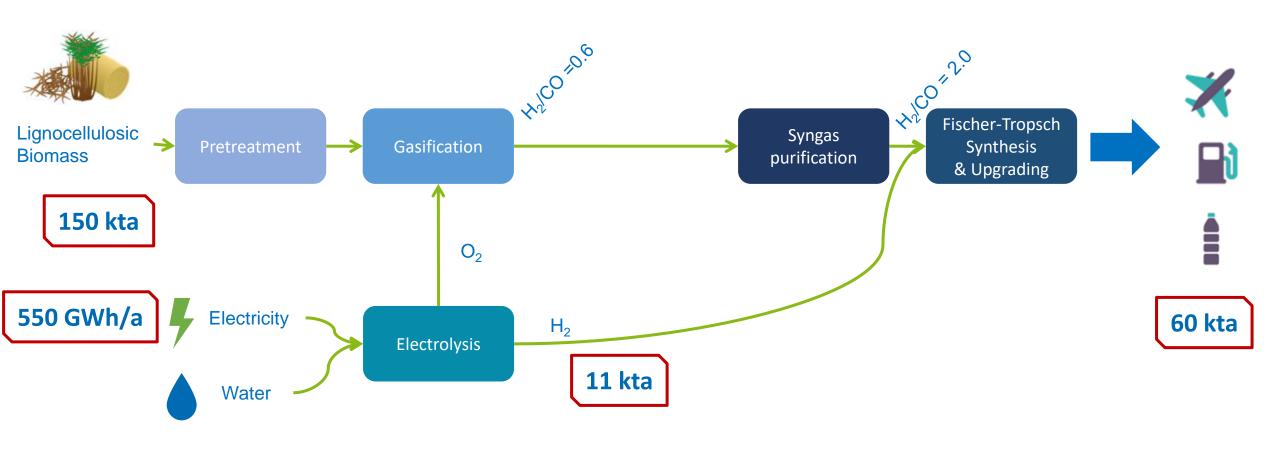






Renewable energies

THE E-BTL A WAY TO MAXIMISE BIOGENIC CARBON





SYNTHESIS

- Different pathways for advanced biofuels are ready for industrial deployment
- Advanced biofuels unit will be a source of biogenic CO₂
- Integration of different technologies will allow to maximize biogenic carbon use in final products
- Others utilities, streams could be integrated (steam, water, ...)



Innover les énergies

Retrouvez-nous sur:

- www.ifpenergiesnouvelles.fr
- **y** @IFPENinnovation

