

Geert Decock,

Electricity and Energy Manager, International Coalition for Sustainable Aviation (ICSA), Transport & Environment

ICA ICA

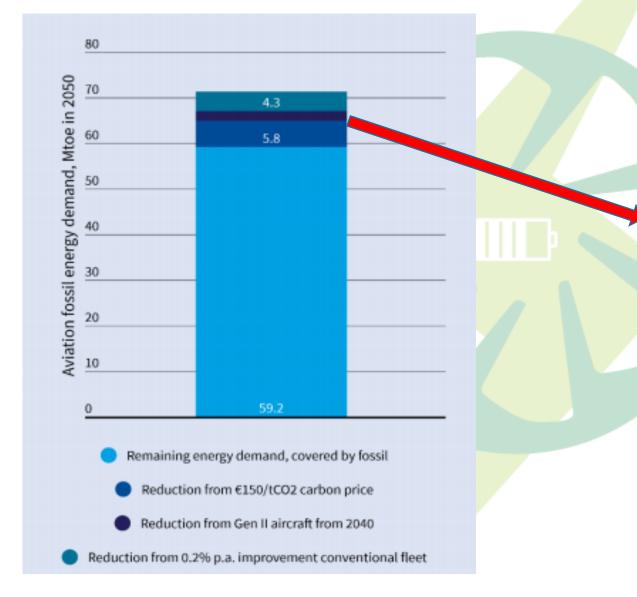
Geert Decock

Electricity & Energy Manager

Transport & Environment

geert.dc@transportenvironment.org







H2 aircraft, clearly no silver bullet!

T&E 2050 aviation roadmap

Hydrogen aircraft - major questions remain

Before 2050, not available for long haul (< 2000 NM)?

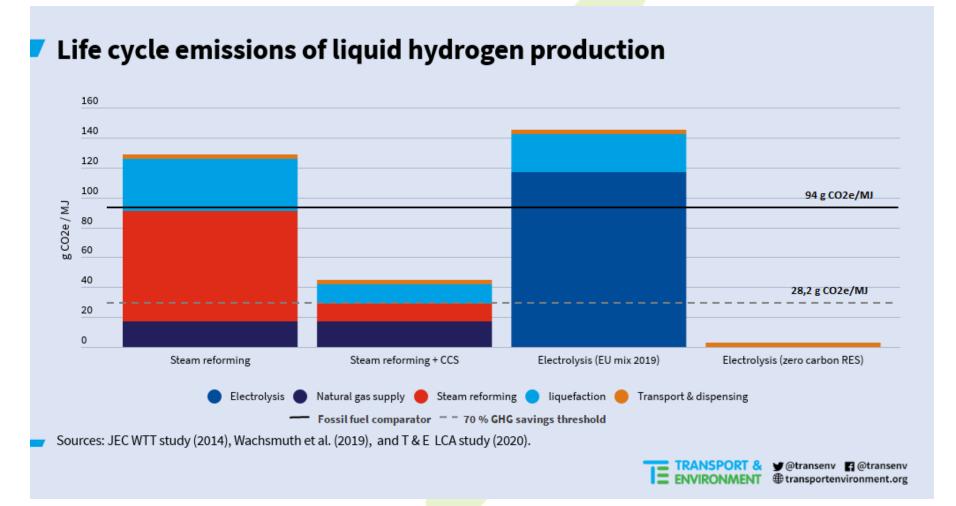
- Development time/ certification, not before 2035? Existing fleet?
- Financing for development of new H2 aircraft?

 Need to develop entirely new H2 refuelling infrastructure? Onsite liquefaction? Competitive with blending ekerosene?

What Sustainable Aviation Fuels policies needed?







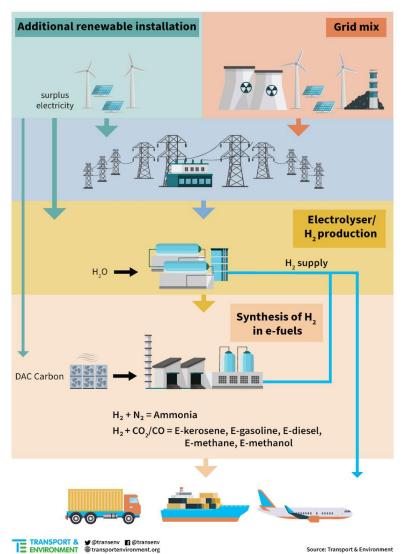


Current H2 production

99% SMR!

1% electrolysis

Producing H2/efuels with grid-connected electrolysers



H2 & ekerosene are as clean as the electricity used to produce them

- Renewable grid
- Direct connection

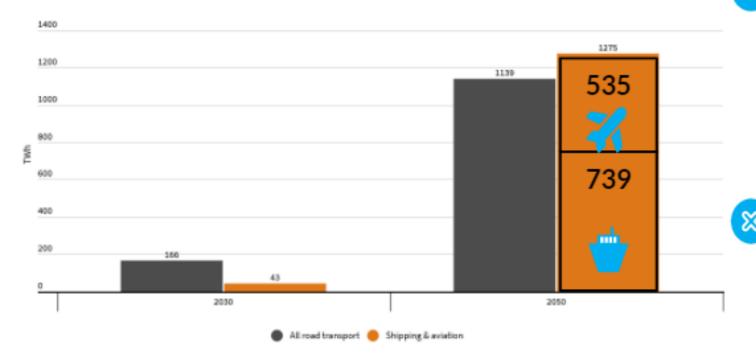
<u>Additional</u> renewables to be used, when reliant on grid.

 EU working on rules for Renewable Fuels of Non-Biological Origin (RFNBO)

T&E briefing: "Getting it right from the start"

Renewables for transport, before and after 2030.





Additional pre-2030 RES-E demand mostly from road, but grid impact limited

Rapid scale-up after 2030, road, but especially ships & planes

