

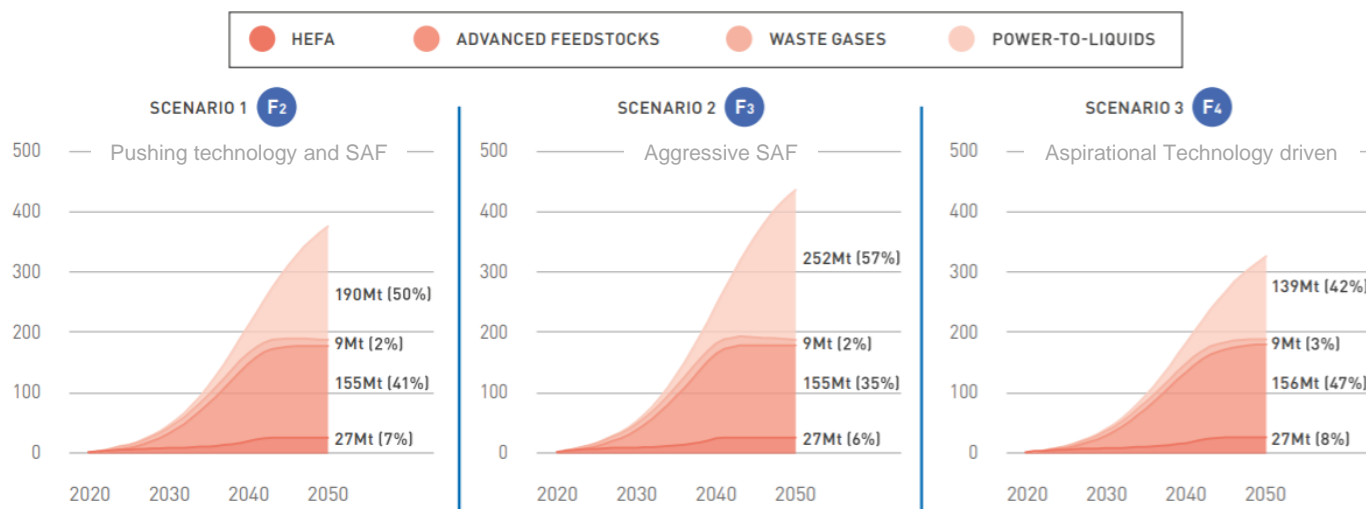
Where do Sustainable aviation fuels (SAF) come from in 2050? Bioenergy or renewable electricity?

S. Biollaz¹, G. Guidati²

¹Paul Scherrer Institut (PSI), Bioenergy and Catalysis Laboratory, ENE ²ETHZ, Energy Science Center (ESC)

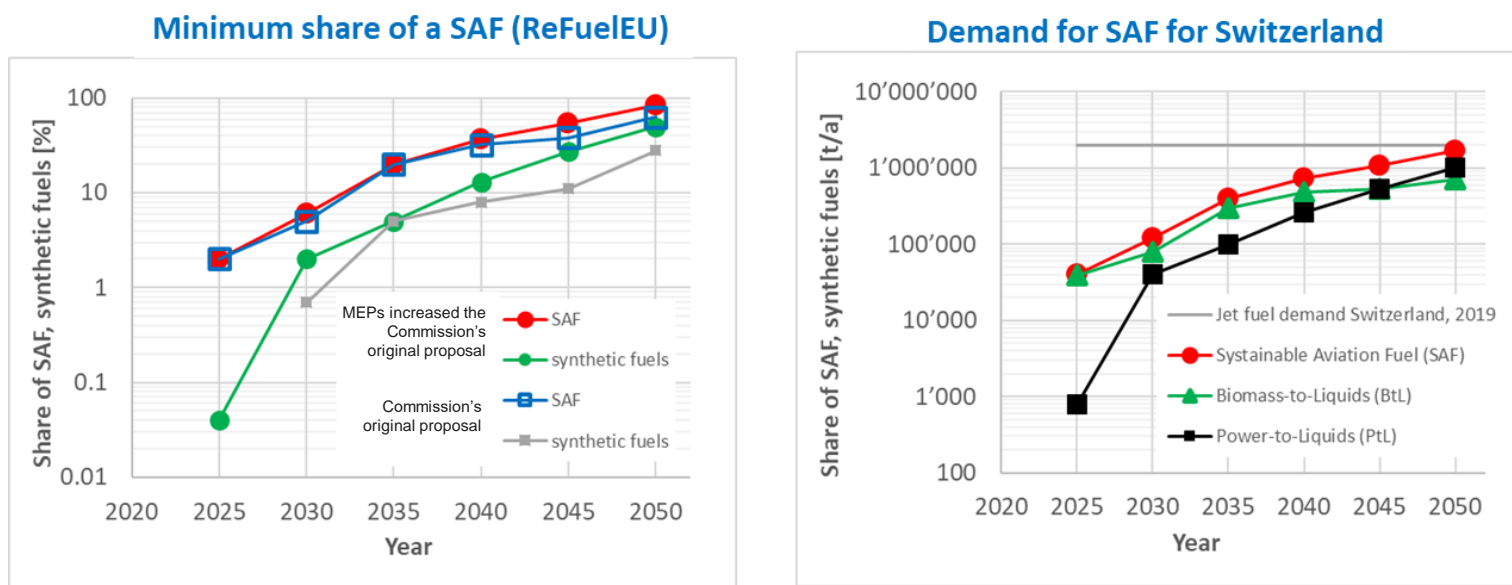
Hypothesis: The majority of SAF will be imported based on biomass and renewable electricity via PtL

IATA perspective of sources of sustainable aviation fuel (SAF) worldwide (Mt/a)



1st wave: HEFA (Hydroprocessed Esters and Fatty Acids) 2nd wave: Advanced Biomass Feedstocks 3rd wave: Renewable Electricity (Power-to-Liquids [PtL])

Expected increase of SAF demand for the Swiss marked (t/a)



Net Zero Scenario for Switzerland in 2050 (TWh/a)

