Sustainable Aviation Fuels
time for take-off

Rene Daniel Buttgen

"Rene Daniel Büttgen holds Bachelor's and Master's degrees in Chemistry from RWTH Aachen University, where he also conducted doctoral research on lignocellulosic biomass combustion, combining experimental investigations with chemical kinetic modelling.

He now works as a postdoctoral researcher at Forschungszentrum Jülich within the EU Horizon-funded SUSTEPS project, which aims to produce sustainable aviation fuel (SAF) from algal biomass. His research focuses on autothermal reforming and water-gas shift processes to supply hydrogen for biocrude upgrading and support CO_2 recycling to algae cultivation. Through this work, he aims to enhance process circularity and address the upgrading requirements of algae-based SAF production."