

Production of sustainable aviation fuels from waste biomass by coupling fast pyrolysis with solar energy

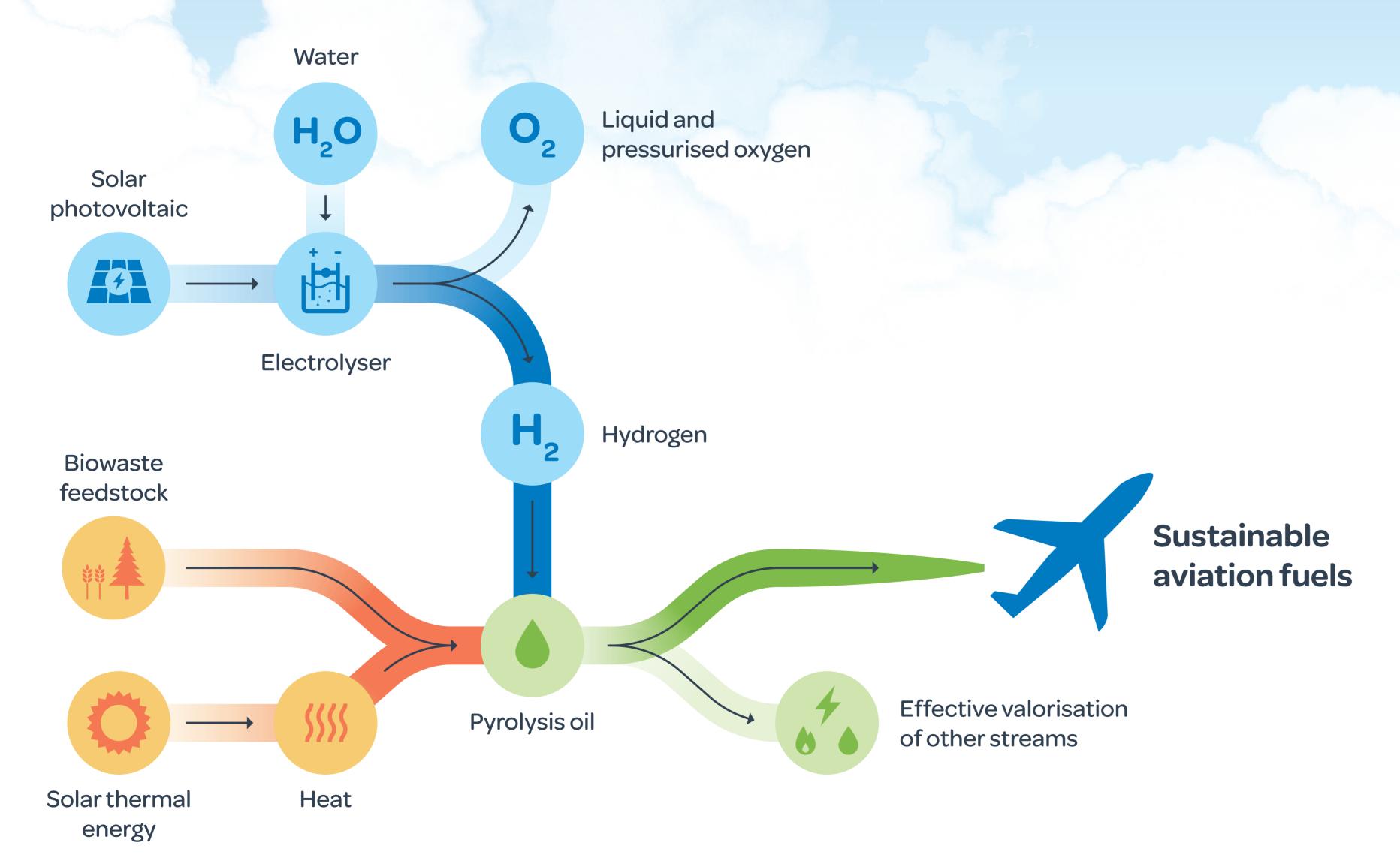
Mika Järvinen, Associate Professor, Department of Mechanical engineering, Aalto University

The Circular Fuels project is pioneering sustainable aviation fuel production processes that use solar energy and waste-based raw materials, aligning with and advancing the sustainability standards set by the EU and UN.

- System design Aalto University – Finland
- 2. Solar integration CNRS – France
- 3. Fast pyrolysis bio-oil production VTT - Finland
- 4. SAF end usage Lund University – Sweden
- 5. Upscaling potential TUW – Austria
- 6. Fuel analytics Orlen – Poland
- Catalyst production Ranido - Czech Republic
- 8. Material compatibility Bosmal – Poland
- Dissemination and communication REVOLVE – Belgium

Denmark, France, Czech Republic: Feedstock production (demolition wood, rye straw, wheat straw)





The Circular Fuels project aligns with current research and policy needs and can partially tackle the environmental implications of the aviation sector.

Research

Need for greater innovation and higher deployment of sustainable fuel alternatives.

Policymaking

Based on the Fit for 55 package proposal, 70% of jet fuels at EU airports should be renewable by 2050.

Environment

The aviation transport industry is a highly carbonintensive sector, accounting for 14.4% of EU transport emissions. One of the multiple applicable solutions to reduce GHG emissions is the further integration of SAF.

Granted budget: € 4 997 353,50 9 partners, 7 countries.



Mika Järvinen | Aalto University mika.jarvinen@aalto.fi

For media requests, please contact: press@revolve.media



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