

## Contact

[circularfuels.eu](https://circularfuels.eu)

Mika Järvinen | Aalto University | [mika.jarvinen@aalto.fi](mailto:mika.jarvinen@aalto.fi)

For media requests, please contact: [press@revolve.media](mailto:press@revolve.media)

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# Circular Fuels



The Circular Fuels project aims to **produce sustainable aviation fuels (SAF) through advancements in renewable energy and technological innovation.** By enhancing the speed of transfer from fossil fuels to renewable energy, Circular Fuels will reduce the unwanted externalities associated with unsustainable aviation fuels.

## Why Circular Fuels?

- The aviation transport industry is one of the most carbon-intensive sectors, accounting for 14.4% of EU transport emissions.
- The Fit for 55 package has proposed the increase of greener aviation fuels in aircraft engines.
- The air transport sector needs greater innovation and higher deployment of sustainable fuel alternatives.
- ReFuelEU requires 70% of jet fuels at EU airports to be renewable by 2050.

## Circular Fuels – What will it do?

- Develop a new process concept for SAF using solar driven pyrolysis for bio-oil production and solar PV electrolysis-based  $H_2$  for processing.
- Analyse the sustainability aspects of the technology proposed.
- Provide policy recommendations for successful implementation by introducing commercially viable and cost-effective solutions.
- Potentially create collaboration and greater impact among stakeholders in the energy industry, such as biomass producers, solar and aviation companies, as well as circular economists, EU Green Deal policymakers, farmers and municipalities, aviation passengers.

