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En route to sustainable aviation: from climate science to mitigation policies

Abstract

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Sustainable fuels: France, a favourable case for a trajectory within reach

Decarbonising aviation and shipping will require large volumes of electrofuels, combining low-carbon electricity with biomass or captured CO_2. The question is then whether they can be produced at the scale of the need in a country such as France. To this end, a production trajectory is proposed and confronted with the available resources. The physical resources required prove significant but manageable for production at the scale of the need. France's low-carbon electricity and biomass are an asset for the emergence of a strategic European sustainable fuel industry, starting with a first industrial step. Beyond this first step, the constraint would more likely be economic, given the uncertainty over a worldwide convergence towards large-scale use of these fuels.
The first step might then prove strategic, as a way to remain able to adapt to future contexts, whatever they may be.