TRIMIS

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Aviation emissions

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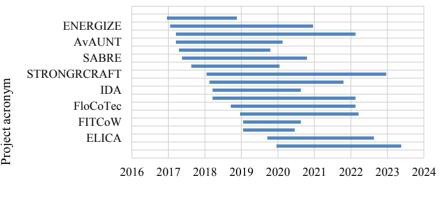*https://trimis.ec.europa.eu*

TRIMIS INSIGHTS

The TRIMIS database includes many EU-funded projects that address aviation emissions. Figure 1 shows a selection of recent EU projects that cover a variety of topics that directly or indirectly address emissions from air transport.

Many projects address vehicle design and manufacture, such as STRONGRCRAFT, FITCoW, CHAiRLIFT and FLoCoTec. Some are specifically working on ultra-high bypass ratio jet engines, such as IDA, ORBIT, AvAUNT and HILOGEAR.

Electrification and hybridisation of air transport are also exciting topics of research as shown by the SCOPUS, SUNSET, ELICA and ENERGIZE projects. Other projects are looking at the potential for alternative fuels, such as KEROGREEN and FlexJET. Finally, operational changes can also have an impact of emissions, which is what the ClimOP project is addressing.

More information on these projects, as well as more projects on aviation emissions, can be found on the TRIMIS website. One of these projects, ELICA, is highlighted below.

Highlight: ELICA – Electric Innovative Commuter Aircraft

Project period: October 2019 to September 2022
The ELICA research project is concerned with the conceptual design of a 19-passenger commuter aircraft – which is based on alternative propulsion concepts that are technologically innovative – and has near-zero emissions of carbon dioxide (CO_2), oxides of nitrogen (NOx) and noise. The project aligns with the environmental expectations of the European Commission towards the aeronautical industry formulated in Flightpath 2050. The concept aims to be economically feasible, meaning that the aircraft requirements and designs should be derived from market demands.

Website: https://silverstream.automotive.oth-aw.de/