

*"Transforming the way we approach
regional aircraft aviation"*

About

HERFUSE (Hybrid-Electric Regional FUSElage & Empennages) aims to design innovative **fuselage and empennages** for future Hybrid-Electric Regional aircraft (**HER**) to reduce Green House Gases (GHG) emissions. It addresses challenges in **layout, materials, components, manufacturing, and assembly**, integrating features for hybrid-electric propulsion and complementary systems to improve weight, durability, aerodynamics, and operations. The project **aligns with the HERA project**, focusing on regional aircraft, and aims to achieve performance gains through technologies such as low GHG energy sources, storage, distribution, operational features, and thermal management. HERFUSE's technical solutions will contribute to **reducing emissions at the aircraft level**, in tandem with HERA's objectives.

The HERFUSE Team

Coordinated by



Connect with HERFUSE

101140567 01.01.2024 36 Months



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Design by EASN-TIS

Hybrid Electric Regional
FUSElage & Empennages



Co-funded by
the European Union

Objectives



Fuselage & Empennage design

Providing a groundbreaking fuselage and empennage, along with integrated solutions, designed to align with Hybrid-Electric Regional concepts at significant component, assembly, or system levels, aiming to meet the environmental target set by SRIA for 2035 regional aircraft.



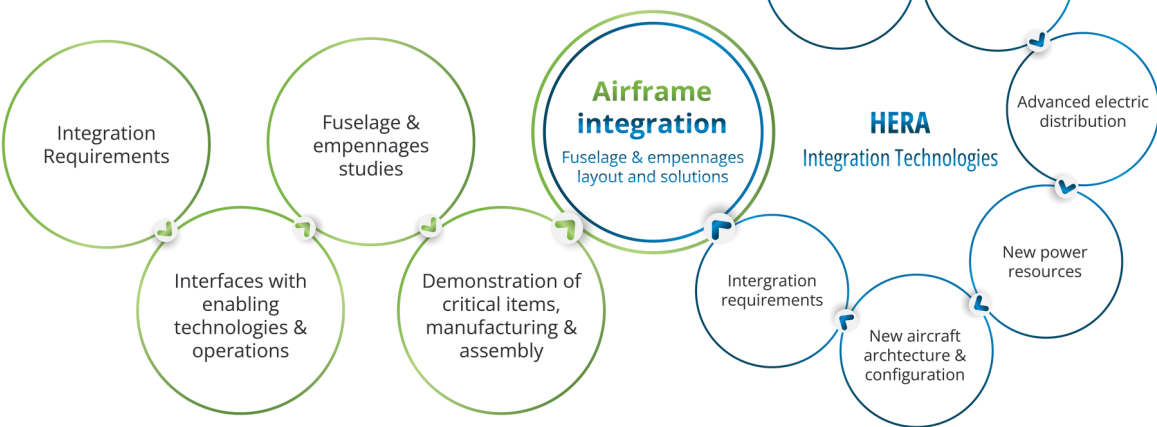
On ground demonstration

Showcasing on-ground components or sub-systems relevant to Hybrid-Electrical Regional, providing quantitative data to aircraft-level studies in HERA project, and validating hybrid-electric technologies at a high Technology Readiness Level (TRL), in anticipation of the subsequent development of an operational regional aircraft.

HERFUSE contribution to HERA

HERFUSE

Steps towards fuselage and empennages layout & solution



HERFUSE methodology to conceive 2035 fuselage and empennages

