Hydrogen Powered Aircraft
Novel concepts with H2 direct burn & fuel cell based propulsion

Hydrogen and dual fuel combustion technologies
ROLL ROYCE (*)

CAVENDISH

Hydrogen engine integration in flying platform
AVIO AERO (*)

HYDEA

Hydrogen lightweight & innovative tank for zero-emission aircraft
ACITURRI (*)

H2ELIOS

Liquid hydrogen load bearing tank for commuter
PIPISTREL (*)

FLHYing Tank

Hydrogen Fuel Cell Electric Power Train Demonstration
PIPISTREL (*)

HyPoTraDe

Hybrid Electric
Combining Innovative Airframe, Novel Systems & HE power train

Ultra Efficient / Short Medium Range
Combined powerplant & Airframe efficiency

HE-ART
2.150-2.850 MW Multi Hybrid Electric propulsion system for regional AirCraft
ROLLS-ROYCE (*)

AMBER
~ 2MW Multi Power train InnovAtive for hybrid-Electric Regional Application
GE AVIO (*)

TheMa4HERA
Thermal Management Solutions for Hybrid Electric Regional Aircraft
HONEYWELL (*)

HECATE
Electrical Distribution Solutions for Hybrid-Electric Regional Aircraft
COLLINS (*)

HERWINGT
Hybrid Electric Regional Wing Integration Novel Green Technologies
AIRBUS (*)

HEAVEN
Ultrafan – Hydrogen & hybrid gas turbine design
ROLLS-ROYCE (*)

SWITCH
Sustainable Water-Enhanced-Turbofan (WET) Comprising Hybrid-electrics
MTU AERO ENGINES (*)

OFELIA
Open fan engine demonstrator incl. gas turbine design hybridisation for Environmental Low Impact of Aviation
SAFRAN (*)

UP Wing
Ultra Performance Wing
AIRBUS (*)

FASTER-H2
Fuselage, Rear Fuselage and Empennage Technologies for H2 Integration
AIRBUS (*)

PIPISTREL (*)

(*) Consortium Leader
Transversal projects

**CONCERTO**
Construction Of Novel CERTification methOds and means of compliance for disruptive technologies
DASSAULT (*)

**HERA**
Hybrid-Electric Regional Aircraft Architecture and technology integration
LEONARDO (*)

**SMR ACAP**
SMR Aircraft architecture and technology integration Project
AIRBUS (*)

**ECARE**
European Clean Aviation Regional Ecosystem/synergies with regions

(*) Consortium Leader