

# A Turkish company looks for a partner for the "EUROGIA project" about the Electrification of Lighter Aircrafts via Hydrogen-based Propulsion Systems

## Summary

Profile type

**Research & Development Request**

Company's country

**Türkiye**

POD reference

**RDRTR20250325001**

Profile status

**PUBLISHED**

Type of partnership

**Research and development  
cooperation agreement**

Targeted countries

- Austria
- Spain
- Canada
- Chile
- United Kingdom
- Singapore
- France
- Germany
- Israel
- Croatia
- Switzerland
- Ireland
- Czechia
- Poland
- Latvia
- Portugal
- Denmark
- Belgium
- South Korea
- South Africa
- Hungary

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- Luxembourg

- Lithuania

Contact Person

[Enrico FRANZIN](#)

Term of validity

**25 Mar 2025****25 Mar 2026**

Last update

**25 Mar 2025**

## General Information

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### Short summary

The project focuses on the Hydrogen and battery technologies for the Aviation sector. Electrification of aircrafts requires immense study of aircraft powerplant systems. In order to produce a light weight and long endurance electrical aircraft, a combination of battery and hydrogen fuel cell-based power system is proposed along with the energy management and storage subsystems.

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### Full description

Clean Aviation aircraft concepts are based on advanced design features that affect powerplant and the energy storage units. The project aims to develop and commercialize compact and energy efficient Hydrogen-based propulsion system for light aircrafts.

Project WBS can be depicted in seven parts:

1. Propulsion subsystem,
  2. Fuel cell subsystem,
  3. Hydrogen storage subsystem,
  4. Energy management subsystem,
  5. Structural and thermal management subsystem,
  6. Health management subsystem,
  7. Electrical and mechanical ground support subsystems.
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#### Advantages and innovations

Project results are expected to demonstrate an electric propulsion system for light aircraft concept by 2028. Additionally, the propulsion system will be compliant to CS-23 and CS-E certification requirements. A route towards certification and exploitation shall be outlined, including the identification of operational requirements. Outcomes of the project, such as energy management and storage, are applicable to other hydrogen fuel cell and/or battery based electrical system architectures other than aircrafts.

#### Technical specification or expertise sought

The team will conduct the research, product development, assembly, integration and tests of the main system, and is eager to collaborate with technologically competitive partners on fuel cell and hydrogen storage subsystems. Within this context, the team is looking for partnership from the EUROGIA2030 supporting countries on battery, fuel cell and Hydrogen storage solutions (The project shall identify and implement synergies with activities funded under innovation and research programmes at National and European level).

#### Stage of development

**Under development**

#### Sustainable Development goals

- **Goal 13: Climate Action**
- **Goal 17: Partnerships to achieve the Goal**
- **Goal 9: Industry, Innovation and Infrastructure**

#### IPR Status

**No IPR applied**

#### IPR Notes

## Partner Sought

#### Expected role of the partner

The Turkish team will conduct the research, product development, assembly, integration and tests of the main system, and is eager to collaborate with technologically competitive partners on fuel cell and hydrogen storage subsystems. Within this framework, partners from the EUROGIA2030 supporting countries on battery, fuel cell and Hydrogen storage solutions are sought.

#### Type of partnership

#### Type and size of the partner

**Research and development cooperation agreement**

- SME <=10
- Big company
- SME 50 - 249
- SME 11-49

## Call Details

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Framework program

**Eureka**

Call title and identifier

**Euragia 2030 program Call 28**

Submission and evaluation scheme

**2 stage call.**

Anticipated project budget

Coordinator required

**No**

Deadline for EoI

**31 Mar 2025**

Deadline of the call

**24 Apr 2025**

Project duration in weeks

**156**

Web link to the call

<https://eurogia.eu/eurogia-calls/>

Project title and acronym

**Electrification of Lighter Aircrafts via Hydrogen-based Propulsion Systems**

## Dissemination

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## Technology keywords

- **04002012 - Other energy related machinery**
- **04007001 - Energy management**
- **04002002 - Hydrogen production**

## Targeted countries

- **Austria**
- **Spain**
- **Canada**
- **Chile**
- **United Kingdom**
- **Singapore**
- **France**
- **Germany**
- **Israel**
- **Croatia**
- **Switzerland**
- **Ireland**
- **Czechia**
- **Poland**
- **Latvia**
- **Portugal**
- **Denmark**
- **Belgium**
- **South Korea**
- **South Africa**
- **Hungary**
- **Luxembourg**
- **Lithuania**

## Market keywords

- **06010003 - Energy for Industry**
- **09001006 - Airfield and other transportation services**

## Sector groups involved

- **Renewable Energy**
- **Aerospace and Defence**
- **Mobility - Transport - Automotive**
- **Energy-Intensive Industries**