

Italian airport is looking for innovative solutions that allow prior assessment of electromagnetic interference caused by photovoltaic panels in airport infrastructures

Summary

Profile type

Technology request

Company's country

Italy

POD reference

TRIT20250307007

Profile status

PUBLISHED

Type of partnership

**Research and development
cooperation agreement****Commercial agreement with
technical assistance**

Targeted countries

• World

Contact Person

[Enrico FRANZIN](#)

Term of validity

11 Mar 2025**11 Mar 2026**

Last update

11 Mar 2025

General Information

Short summary

Italian airport is looking for innovative solutions that allow prior assessment of electromagnetic interference caused by photovoltaic panels in airport infrastructures, in order to develop a large-scale ground-based photovoltaic plant to sustain the transition towards a more efficient and sustainable infrastructure. Companies or research centers are sought, for a R&D cooperation agreement or a commercial agreement with technical assistance

Full description

An Italian company manages a regional airport engaged in sustainable development that has already invested towards the creation of an infrastructure that will prepare the entry into commercial service of hydrogen-powered and electric aircraft.

Together with University they have created an energetic "digital twin" of the airport in order to analyse the drivers that influence the energy demand and select the best solutions for the future scenarios: the plan is to become a Smart Energy Hub. The master planning of future airports will be designed from the modelling of the green energy and the technological solutions required to power infrastructure, transport systems, GSEs (ground support equipments) and provide the energy required by aircrafts.

The airport is engaged in the creation of a sustainable infrastructure including a photovoltaic system connected to a

hydrogen production facility that will be able to optimize the energy consumption cycle by leveling demand and production peaks.

Problem to be solved:

The installation of large-scale ground-based photovoltaic plants is envisaged in the airport's development plan. The electromagnetic compatibility of these installations with the radar systems in place is a common issue that has to be faced.

It would be crucial to find an innovative solution that allows prior assessment of electromagnetic interference caused by photovoltaic panels and/or to experiment with panels and support structures that do not cause interference. The partnership could take place as a R&D cooperation agreement or a commercial agreement with technical assistance.

Partner sought:

a SME, company or research centre having developed a solution to limit the electromagnetic interference caused by photovoltaic panels and/or to experiment with panels and support structures that do not cause interference.

Advantages and innovations

The solution sought will allow prior assessment of electromagnetic interference caused by photovoltaic panels, thus facilitating the transition to a more sustainable infrastructure

Technical specification or expertise sought

Expertise in research and innovation in the domain of electromagnetic interference in energy generation

Stage of development

Under development

Sustainable Development goals

• **Goal 7: Affordable and Clean Energy**

IPR Status

IPR Notes

Partner Sought

Expected role of the partner

The partner can be a company or Research center having developed a solution to limit the electromagnetic interference caused by photovoltaic panels and/or to experiment with panels and support structures that do not cause interference

Type of partnership

Research and development cooperation agreement

Commercial agreement with technical assistance

Type and size of the partner

• **SME <=10**

• **Big company**

• **SME 11-49**

• **SME 50 - 249**

• **R&D Institution**

Dissemination

Technology keywords

- **04002013 - Smart grids**
- **04005004 - Photovoltaics**

Targeted countries

- **World**

Market keywords

- **06003002 - Photovoltaics**

Sector groups involved

- **Aerospace and Defence**
- **Renewable Energy**