A French environmental engineering company is looking for an operational solution for the detection (birds and bats) and restraint of wind turbines using artificial intelligence.

Summary

Profile type	Company's country	POD reference
Technology request	**France**	**TRFR20250909009**
Profile status	Type of partnership	Targeted countries
PUBLISHED	**Commercial agreement with technical assistance**	**• World**
Contact Person	Term of validity	Last update
Enrico FRANZIN	**9 Sep 2025** **9 Sep 2026**	**9 Sep 2025**

General Information

Short summary

A French environmental consultancy is looking for a technical solution already on the market to address the problem of detecting birds and bats disrupting the operation of wind turbines. Ideally, a technical solution incorporating artificial intelligence that can also retrieve operating data. The company is looking for an innovative European company to establish a commercial partnership with technical support for its French customers in the wind energy sector.

Full description

A French independent environmental engineering consultancy with over 30 years' experience in the sector. The company specialises in providing expert advice and high-level studies in environmental assessment and management to public and private organisations and individuals.
The company generates a turnover of two million euros across two areas of expertise: ecological expertise (fauna and flora inventories) and environmental regulatory files (environmental impact studies, water law files, natural sections of town planning documents, ICPE files and wetland diagnostics).

They work for public and private clients, for renewable energy developers, for property developers, for large cities or urban agglomerations, and also for major national manufacturers.

Their main area of expertise remains wind energy, a market in which they have built up their expertise and based their growth. Today, this sector remains their main growth driver in France; they work for the main wind turbine developers and aim to triple their renewable energy activity by 2027.
They currently have 3 agencies covering the large northern half of France. Two new agencies will be created within 2 years to cover the entire national territory.

They prioritise sustainable solutions and strict regulatory compliance in order to preserve ecosystems and support the development of renewable energy projects. They combine environmental excellence with innovation, incorporating modern technologies and artificial intelligence into their advisory and engineering services. The company is renowned for its meticulous project management, particularly within the renewable energy and biodiversity protection sectors.

Innovation lies at the core of their strategy, and they now wish to expand the services they offer their 'wind developer' clients by providing an operational solution powered by artificial intelligence for the detection of birds and bats, as well as the restraint of wind turbines.

They are therefore seeking a partnership with a major European player in this market that can provide valuable feedback on the effectiveness of the technical solution and is keen to develop or accelerate its development in France. The terms of the partnership are yet to be defined and formalised.

Advantages and innovations

The company can offer three main opportunities:
- To test and improve at industrial level their innovative solution
- To be connected with them and their customer portfolio of wind developers to promote the implementation of these devices on wind turbines in operation and/or planned for installation.
- To have an operator in France capable of taking responsibility for the operation of these devices, in order to extract and carry out a statistical analysis of the data generated.

Technical specification or expertise sought

They are looking for an operational solution that can detect flying animals, such as birds and bats, before they collide with wind turbine blades.

One option would be an AI-integrated device that can remotely control the blades' rotation speed and predict collision risk levels based on external parameters, such as the weather forecast.

Stage of development

Already on the market

Sustainable Development goals

• **Goal 11: Sustainable Cities and Communities**

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

• **Goal 9: Industry, Innovation and Infrastructure**

IPR Status

No IPR applied

IPR Notes

IPR Notes

Partner Sought

Expected role of the partner

In order to develop its business, the French company want to extend its service to its wind turbine developer customers by offering an innovative solution.

The ideal partner must therefore be able to offer a solution that :
- Detect birds and bats, but also any other flying animals (avifauna and chiropterans).
- Use artificial intelligence to stop or reduce the speed of wind turbines when detected.

The partner must meet both criteria at the same time.
The partner should be willing to cooperate in the extraction and statistical analysis of the data.

The main role of the partner is to propose a licence of its solution in order to promote the implementation of these devices on wind turbines in operation and/or planned for installation on the French market by the company's portfolio of wind developer clients

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

• **Big company**

• **SME 11-49**

• **SME 50 - 249**

• **SME <=10**

Dissemination

Technology keywords

• **10002010 - Remote sensing technology**

• **04005008 - Wind energy**

• **01003003 - Artificial Intelligence (AI)**

• **09003 - Electronic measurement systems**

• **01003025 - Internet of Things**

Market keywords

• **06003003 - Wind energy**

• **08002002 - Industrial measurement and sensing equipment**

• **08002001 - Energy management**

• **02007020 - Artificial intelligence programming aids**

Targeted countries

- **World**

Sector groups involved

- **Electronics**
- **Renewable Energy**