

Next-generation electric generators for enhanced energy storage - strategic cooperation proposal

Summary

Profile type

Technology offer

Company's country

Germany

POD reference

TODE20250527007

Profile status

PUBLISHED

Type of partnership

Investment agreement**Commercial agreement with
technical assistance**

Targeted countries

• World

Contact Person

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Term of validity

27 May 2025**27 May 2026**

Last update

27 May 2025

General Information

Short summary

A German SME offers a patented technology for a new axial flux motor with applications in electric vehicles, aviation and the renewable energy sector allowing for a new long-duration, very efficient and environmentally friendly energy storage technology eliminating energy losses. The SME seeks strategic partners such as e.g. renewable energy producers/suppliers or technology integrators for pilot projects, integration, and joint development under licence, manufacturing or joint venture agreement

Full description

A German SME would like to represent a groundbreaking patented technology that allows the production of a new type of axial flux motors. Their technology has diverse applications across industries, including the automotive sector for electric vehicles, the aviation industry, renewable energy (wind-powered generation), and others. One of their core developments for the renewable energy sector is a long-duration energy storage technology that eliminates energy losses, enabling maximum efficiency and the lowest cost of energy storage. This breakthrough opens new opportunities for ensuring grid stability and delivering scalable solutions based on green energy sources.

Accordingly, they are actively seeking strategic partnerships with:

- Renewable energy producers and suppliers

- Technology integrators and system developers
- Regulatory bodies and national energy planning institutions

They invite organisations to explore collaboration opportunities — from technology integration and pilot projects to joint developments, knowledge exchange, and regulatory support to jointly accelerate the deployment of efficient, reliable, and forward-looking energy solutions across Europe and beyond.

They would be pleased to provide technical documentation, development models, and specific proposals for collaboration and would also welcome the opportunity to schedule an introductory meeting.

Advantages and innovations

Key benefits of motors with the SME's new technology:

- long-duration energy storage technology that eliminates energy losses, enabling maximum efficiency and the lowest cost of energy storage.
- uniqueness of the technology
- reduction of heat losses and conversion of thermal energy into mechanical work
- higher power and higher torque without increasing the product weight and temperature limit
- environmental friendliness - heat loss reduction by 50-70%.
- high efficiency and energy saving
- higher profitability of production
- compliance with the requirements and standards of the European Green Deal

Technical specification or expertise sought

Stage of development

Under development

IPR Status

Secret know-how

IPR Notes

Sustainable Development goals

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

Partner Sought

Expected role of the partner

Three main models of cooperation are offered:

1. Licensing – primary focus

The SME's main strategy is centred around licensing our intellectual property. They are actively seeking strong regional partners who can not only utilize the technology in production but also protect and scale it effectively within their local market.

2. Manufacturing contracts (outsourcing)

In parallel, they are open to manufacturing collaborations in which partners can:

- Produce individual components,
- assemble full products, or
- handle full-scale motor production in-house.

3. Joint Venture (strategic collaboration)

- This model represents a hybrid approach, combining licensing with collaborative product development and commercialization. The SME is open to exploring such partnerships where there is mutual interest and clear value alignment.

Type of partnership

Investment agreement

Commercial agreement with technical assistance

Type and size of the partner

• **Other**

• **Big company**

• **SME 50 - 249**

• **SME 11-49**

• **SME <=10**

Dissemination

Technology keywords

- **04007003 - Process optimisation, waste heat utilisation**
- **04007001 - Energy management**
- **04002005 - Generators, electric engines and power converters**

Targeted countries

- **World**

Market keywords

- **08003006 - Power transmission equipment (including generators & motors)**
- **06008 - Energy Storage**

Sector groups involved