

## IBIS : An “intelligent battery” revolutionizing battery architecture for electric vehicles and stationary storage

The **IBIS (Intelligent Battery Integrated System)** project, led by **Stellantis** and **Saft**, aims to transform the design of electric powertrains.

The innovation is based **on the integration of inverter, charger and converter functions directly into the battery**, in order to reduce costs, improve efficiency and facilitate the second life of batteries in stationary applications.

### Objectives :

- Reduce the cost of manufacturing electric vehicles
- Simplify system architecture
- Encourage reuse of batteries in stationary storage



Sherpa Engineering contributed to the project by **developing dynamic models** and **system control** using Matlab/Simulink, and by participating in the functional validation of the prototypes.

### What's next?

The momentum continues with **IBIS 2**, which aims to take the technology from **TRL5** to **TRL6**, building on the achievements of the first project. The aim is to demonstrate the viability of this innovation under representative conditions, for both electromobility and stationary storage.

We talk about it in more detail in our latest news. Find out more [here!](#)

Contact one of our team members today, and together we'll pave the way for a sustainable future!

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## International Expansion: Our New Subsidiary in MADURAI, India!

This move will enable us to strengthen our local presence, develop solid partnerships and



We are proud to announce the creation of our new subsidiary in India, marking a significant step in our international expansion.

The Indian market, characterized by its rapid growth and dynamic innovation, aligns perfectly with our strategic vision.

considerably enhance the value we bring to our customers and partners in this promising region.



## Skills and tools training to enhance your teams' competence

Increase your skills in system modeling and architecture with training courses by SHERPA Engineering. Our training courses, whether inter- or intra-company, are adapted to your business reality thanks to concrete case studies, and can be customized according to your needs.

Why choose our training courses?

- ✓ Practical approach: benefit from our experience feedback and the latest technological advances.
- ✓ Customized on demand: modular programs aligned to your tools and objectives.
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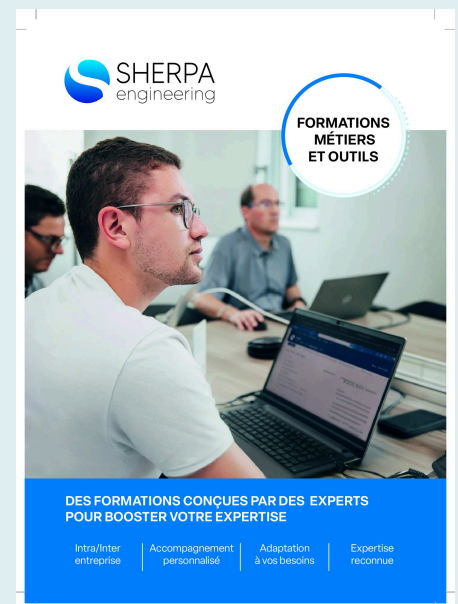
Whether you're an engineer, student or technician, our training courses can boost your expertise.

To find out more, please contact us:

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