

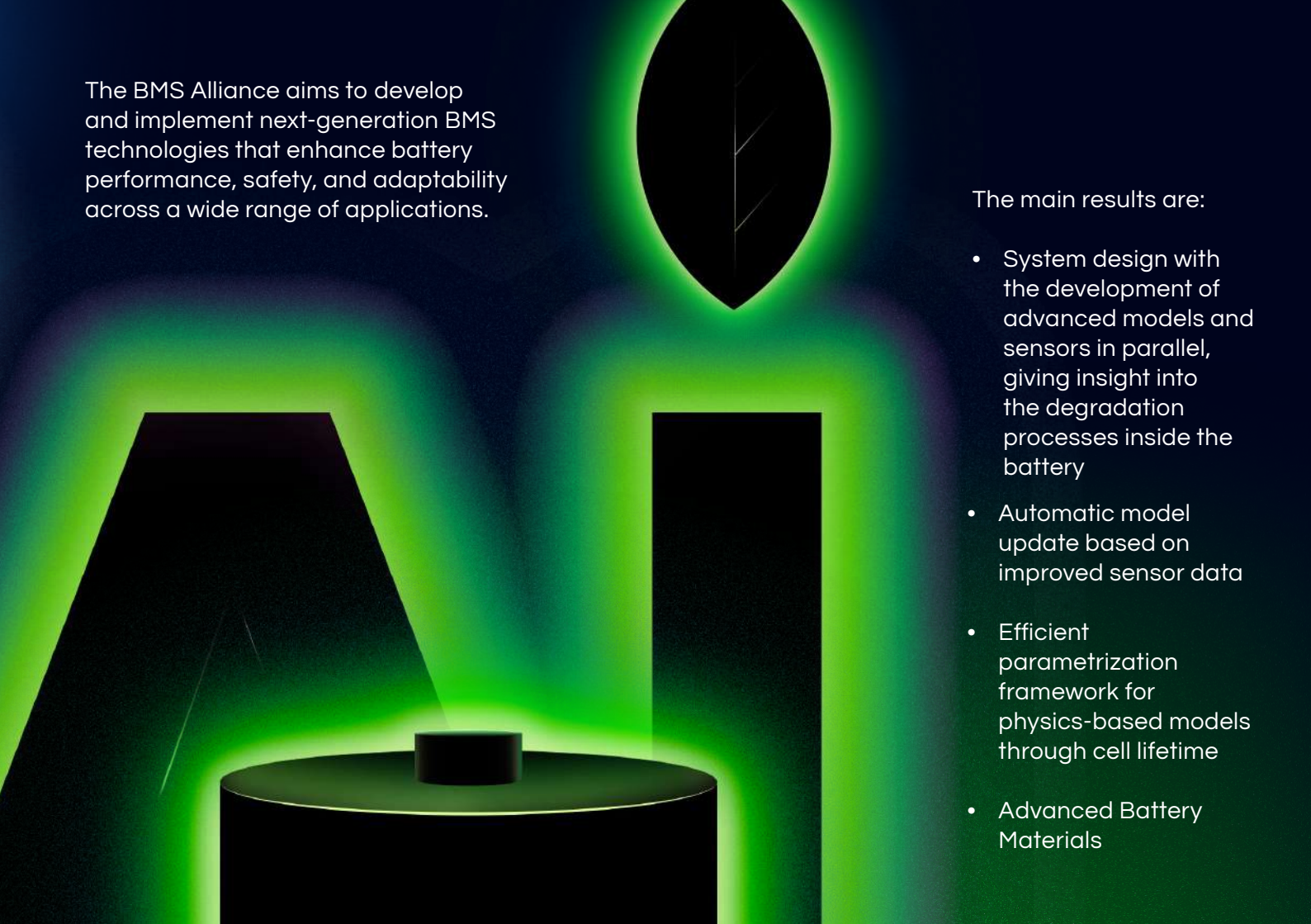


The
BMS
Alliance

Smart Battery Management for Optimal Utilization

Modern battery systems are essential across various fields, yet current Battery Management Systems, or BMS, face challenges in performance optimization, safety, and adaptation to new technologies.

These hurdles limit the efficiency, reliability, and lifespan of batteries, which are vital for sustainable energy solutions and achieving climate goals.

The background features a dark blue gradient with vibrant green light effects. A large, dark green, leaf-like shape is positioned at the top center. In the lower-left, there is a large, dark green, trapezoidal shape. At the bottom center, a dark green cylinder sits on a larger, dark green circular base. To the right of the cylinder is a tall, dark green rectangular prism. The overall aesthetic is futuristic and high-tech.

The BMS Alliance aims to develop and implement next-generation BMS technologies that enhance battery performance, safety, and adaptability across a wide range of applications.

The main results are:

- System design with the development of advanced models and sensors in parallel, giving insight into the degradation processes inside the battery
- Automatic model update based on improved sensor data
- Efficient parametrization framework for physics-based models through cell lifetime
- Advanced Battery Materials



Paving the way for a more reliable and sustainable energy landscape—one smart battery at a time!

energetic

energeticproject.eu



batmaxproject.eu

NEMO

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