

Press Release

Schaeffler Automotive Symposium 2026

## **Performance and efficiency under all conditions: Schaeffler showcases portfolio for integrated energy management**

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- Efficient, safe, and sustainable: integrated Schaeffler solutions for managing electrical and thermal energy
- High-voltage powernet and charging components, thermal management systems, and battery technologies for next-generation vehicles
- Presentation of innovative key technologies in the “Energy Management” technology cluster at the 13th Schaeffler Automotive Symposium

An important factor in the successful transformation to e-mobility is a holistic energy concept for electrified vehicles. Efficient energy management constitutes the essential precondition for driving, charging, battery conditioning, thermal control of the interior, and other vehicle-related functions. At the 13th Schaeffler Automotive Symposium, the Motion Technology Company will be demonstrating how the company is not focusing just on driving when it comes to energy management, but on all aspects that improve performance, efficiency, and customer benefits. After all, energy is never lost – it is transformed. The focus is therefore on integrated solutions for electrified vehicles that convert and distribute energy across systems.

“In electromobility, performance is not dependent on a single component, but on how systems interact. Energy management entails systematically viewing the high-voltage architecture, battery, and thermal management as a whole – with tangible benefits for customers, such as costs, efficiency, range, and performance. It is precisely this systems know-how that characterizes our current innovations at Schaeffler,” says Thomas Stierle, CEO E-Mobility at Schaeffler AG.

### **Performance is the product of the system**

The core energy-management subsystems include the high-voltage powernet for distributing electrical energy, the high-voltage battery as a storage system and energy source, as well as the electric motor for drive and recuperation. In addition, thermal management comes into play, converting electrical energy into thermal energy using components such as the electric compressor, and actively using additional ambient heat. The Motion Technology Company integrates these

functions in the Schaeffler Vehicle Control Ecosystem to control the energy flows in the vehicle holistically, efficiently, and sustainably.

“Schaeffler derives its integration strategy from this systems know-how. We consistently envision energy management way beyond just vehicle functions and focus on electric axles and battery-centric architectures. That way, installation space can be utilized efficiently and power density, overall efficiency, and performance specifically further developed,” explains Thomas Stierle.

### **Components taken to the next level**

Targeted innovations at component level open up additional potential: Improved performance can be leveraged without impairing system integration – thus bolstering systems interaction overall.

For next-generation battery systems, the focus is primarily on optimized charging speed, energy density, and safety. Schaeffler therefore develops powerful cooling concepts, intelligent battery monitoring systems, and mechanical structures tailored flexibly to different cell formats and cell chemistries.

### **Key technologies for more efficient batteries**

At system level, Schaeffler is also driving forward its developments – such as with high-voltage architectures, intelligent charging, thermal integration, vehicle-to-grid functionality, and battery intelligence. These technologies help manage the challenges posed by complexity, efficiency, safety, installation space, and hardware/software integration.

The key technologies include oil-cooled battery cells, a battery cooling module, and X-in-1 electronics integration for the HV powernet. These technologies enable efficient, cost-effective battery performance, thus creating the basis for economic, compelling e-mobility.

### **Schaeffler Automotive Symposium 2026**

The Motion Technology Company will be showcasing product solutions from the “Energy Management” technology cluster at the Schaeffler Automotive Symposium 2026 in Bühl, Germany – the company’s largest automotive customer event. The cluster allows Schaeffler to demonstrate its expertise in optimizing the supply and storage system for electrified powertrains and in improving vehicle performance beyond pure driving.

Schaeffler Group – We pioneer motion: The Schaeffler Group has been driving forward groundbreaking inventions and developments in the field of motion technology for 80 years. With innovative technologies, products, and services for electric mobility, CO<sub>2</sub>-efficient drives, chassis solutions and renewable energies, the company is a reliable partner for making motion more efficient, intelligent, and sustainable – over the entire life cycle. Schaeffler describes its comprehensive range of products and services by means of eight product families: From bearing solutions and all types of linear guidance systems through to repair and monitoring services. Schaeffler is with around 110,000 employees and more than 250 locations in 55 countries, one of the world's largest family-owned companies and one of Germany's most innovative companies.

Schaeffler-Lösungen sorgen für das Management aller Energieformen im Fahrzeug – von der Kraftstoffversorgung bis zur elektrischen und thermischen Energieverteilung. (Foto: Schaeffler)

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Key technologies for more efficient batteries: at system level, Schaeffler is pushing forward its developments here, for instance in the field of high-voltage architectures. (Photo: Schaeffler)

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For next-generation battery systems, Schaeffler focuses primarily on optimized charging speed, energy density, and safety. (Photo: Schaeffler)

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The most important automotive customer event of the Schaeffler Group: the Schaeffler Automotive Symposium provides insights into groundbreaking technologies and presents the Motion Technology Company as a key driver behind the successful transformation of the mobility segment – in Germany, Europe, and worldwide. (Photo: Schaeffler)

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