EV Battery Ecosystem and BMS Software

Leverage breakthrough battery-management technologies for an efficient battery pack that improves EV performance and reliability.

Wipro's suite of electrification solutions address the full spectrum of EV manufacturer needs. From a modular and scalable battery system architecture to a Battery Management System (BMS) and complete system integration, our portfolio enables OEMs to address all phases of the product development lifecycle.

Utilizing our advanced simulation solutions, cutting-edge software control strategies and strategic partnerships through the Wipro Cloud Car ecosystem, OEMs can design a battery ecosystem that accommodates their long-range needs while meeting market demands.

> The BMS solutions in Wipro's Cloud Car platform enable OEMs to achieve notable improvements in battery life, range and safety.

Key takeways

- Improve the customer/driver experience through easy deployment to the Cloud Car environment to boost performance and range targets

- Enhance battery life with highly capable battery state estimation (Charge and Health) that uses AI and ML, plus thermal management and prediction and passive cell balancing

- Ensure optimal system performance with well-structured, scalable and modular software that enables data logging, fault handling and diagnostics

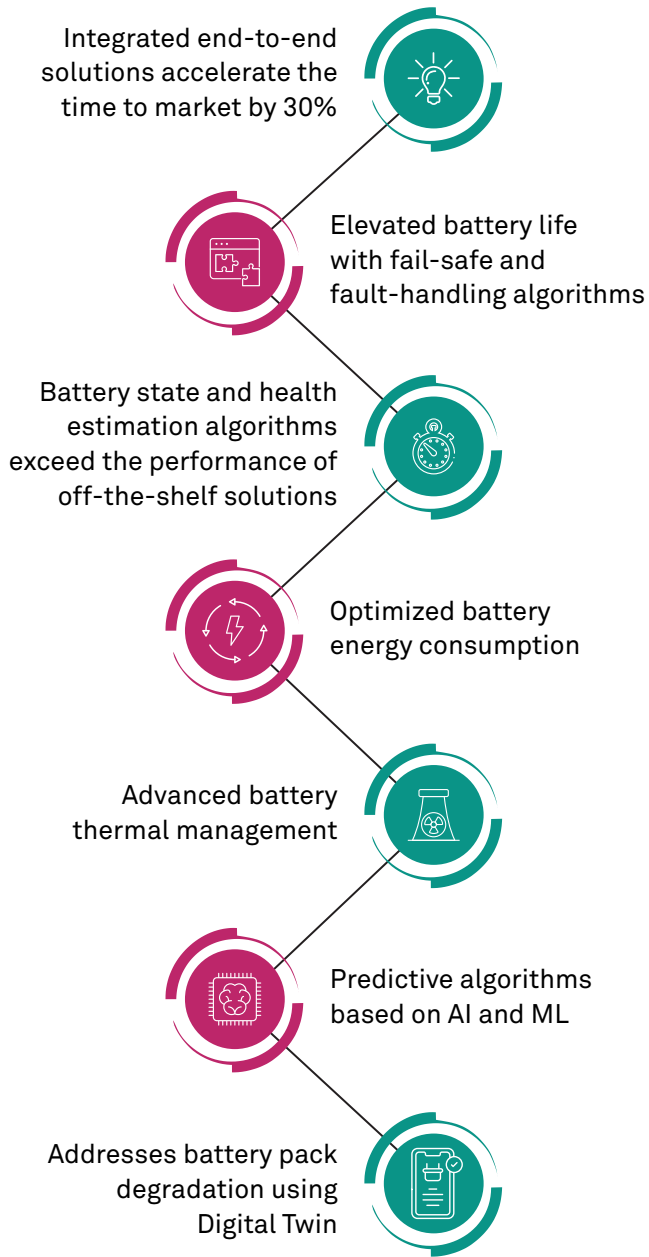- Improved computational power and data storage capability by cloud computing

- Software and control logics for standard and safety compliance

Key benefits

Our Engineering Edge solutions offer critical benefits to OEMs and end users alike.

Integrated end-to-end solutions accelerate the time to market by 30%

Elevated battery life with fail-safe and fault-handling algorithms

Battery state and health estimation algorithms exceed the performance of off-the-shelf solutions

Optimized battery energy consumption

Advanced battery thermal management

Predictive algorithms based on AI and ML

Addresses battery pack degradation using Digital Twin

Wipro offers an unmatched integration of embedded software, cloud engineering, hardware implementation, testing, verification/validation and compliance.

Features

Scalable and modular design

Internet of Things (IoT) computation on Cloud for data logging and battery management

Automotive Open System Architecture (AUTOSAR)-based software design

Highly reliable hardware design

System integration solutions

Functional safety (ISO26262) compliant

Wipro Limited
Doddakannelli
Sarjapur Road
Bengaluru – 560 035
India

Tel: +91 (80) 2844 0011
Fax: +91 (80) 2844 0256
wipro.com

Wipro Limited (NYSE: WIT, BSE: 507685, NSE: WIPRO) is a leading technology services and consulting company focused on building innovative solutions that address clients' most complex digital transformation needs.

Leveraging our holistic portfolio of capabilities in consulting, design, engineering, and operations, we help clients realize their boldest ambitions and build future-ready, sustainable businesses. With nearly 245,000 employees and business partners across 65 countries, we deliver on the promise of helping our clients, colleagues, and communities thrive in an ever-changing world.

For more information, please write to us at **info@wipro.com**