Visteon®

NEWS RELEASE

EV Battery Management: Why Adaptability Matters for Long-Term Value

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The electric vehicle revolution is progressing forward, powered by cutting-edge battery technology. But what keeps these powerful batteries efficient and sustainable? Enter battery management systems, the unsung heroes ensuring optimal performance and environmental responsibility. Visteon is pushing the boundaries of BMS innovation, and we're excited to share the insights from our Advanced Technology Director of Electrification, Fiona.

Adapting to a Dynamic Landscape

Fiona highlights the current trends in battery management systems underscored by the excitement surrounding innovations in the battery space. With the rapid evolution of EV batteries, particularly the shift from 400-volt to 800-volt propulsion systems, engineers successfully tackle the challenge of adapting BMS to meet evolving industry standards.

The increasing use of different battery cell chemistries creates a need for flexible Battery Management Systems. These chemistries include nickel manganese cobalt and lithium iron phosphate cathodes, along with variations in the anode's graphite and silicon mix. Our teams prioritize building scalable BMS. This means they can support these various cell chemistries and seamlessly adapt to future high-voltage architectures. This ensures your car stays compatible with ever-evolving charging infrastructure, future-proofing your vehicle.

Safety and Sustainability at the Core

Visteon doesn't compromise on safety. Our advanced BMS solutions use high-end technologies and undergo rigorous quality control.

This sets new standards for reliability, giving you peace of mind. We also consider environmental sustainability in

their design. Features like recycled content tracking and potential second-life applications help minimize environmental impact.

Intelligence and Efficiency Define the Future

Looking ahead, Visteon remains committed to developing BMS that transcend current market demands and anticipate future needs. Our engineers are focused on three key goals: extending battery life, optimizing performance, and making battery recycling and reuse easier. To achieve this, they're incorporating intelligent features and using powerful data analysis.

Confronting Infrastructure Challenges

As the industry grapples with the transition to 800-volt propulsion systems, Visteon is at the forefront of innovation, developing junction box designs capable of accommodating both 400-volt and 800-volt configurations. This forward-thinking approach ensures compatibility with existing infrastructure while paving the way for tomorrow's advancements.

Visteon's dedication to innovation, adaptability, and sustainability in BMS design is shaping the future of **electric mobility**. With top automotive engineers at the helm, we are constantly pushing boundaries and inspiring transformative change.

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