

CLARIOS

MEMBER UPDATE

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VICE PRESIDENT TECHNOLOGY

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CLARIOS

AUTOMAKERS ACCELERATING ELECTRIFICATION AND AUTONOMY INVESTMENTS

CLARIOS PRODUCTS AND TECHNOLOGY STRATEGY ALIGNED TO RAPID PACE OF CHANGE

Mobileye and Geely team up to build a self-driving car you can buy

The vehicle will supposedly go on sale in China in 2024

Chery Expected to Realize L4 Highly Autonomous Driving Technology In 2025

China's BYD, Momenta enter venture for autonomous driving technology

GM to go all-electric by 2035, phase out gas and diesel engines

GM launched its first long-range electric car, the Chevy Bolt, in 2016.

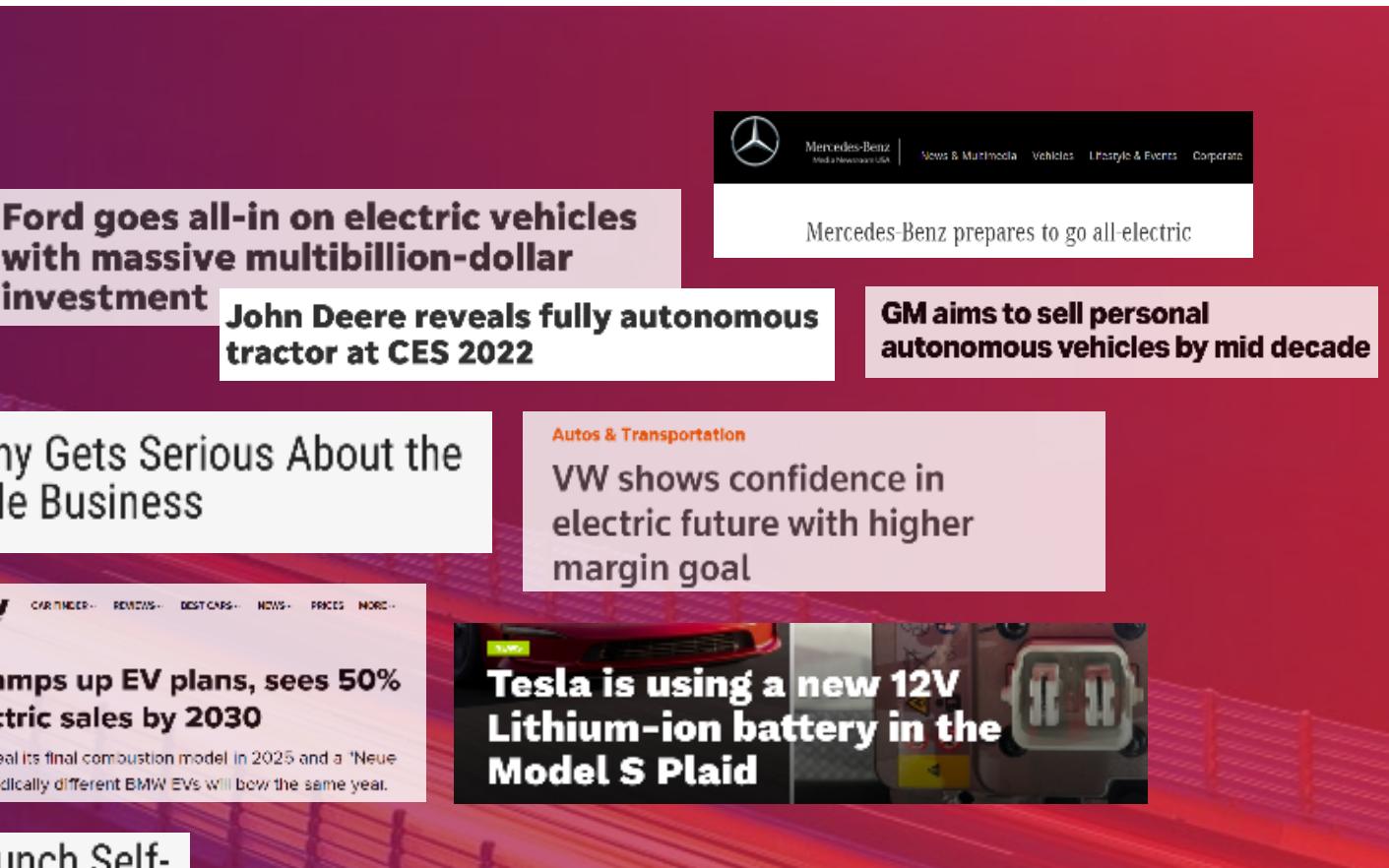
CES 2022: Volvo to Launch Self-Driving Subscription Upgrade in California

ROAD / SHOW CARTHEM REVIEWS BEST CARS NEWS PRICES MORE

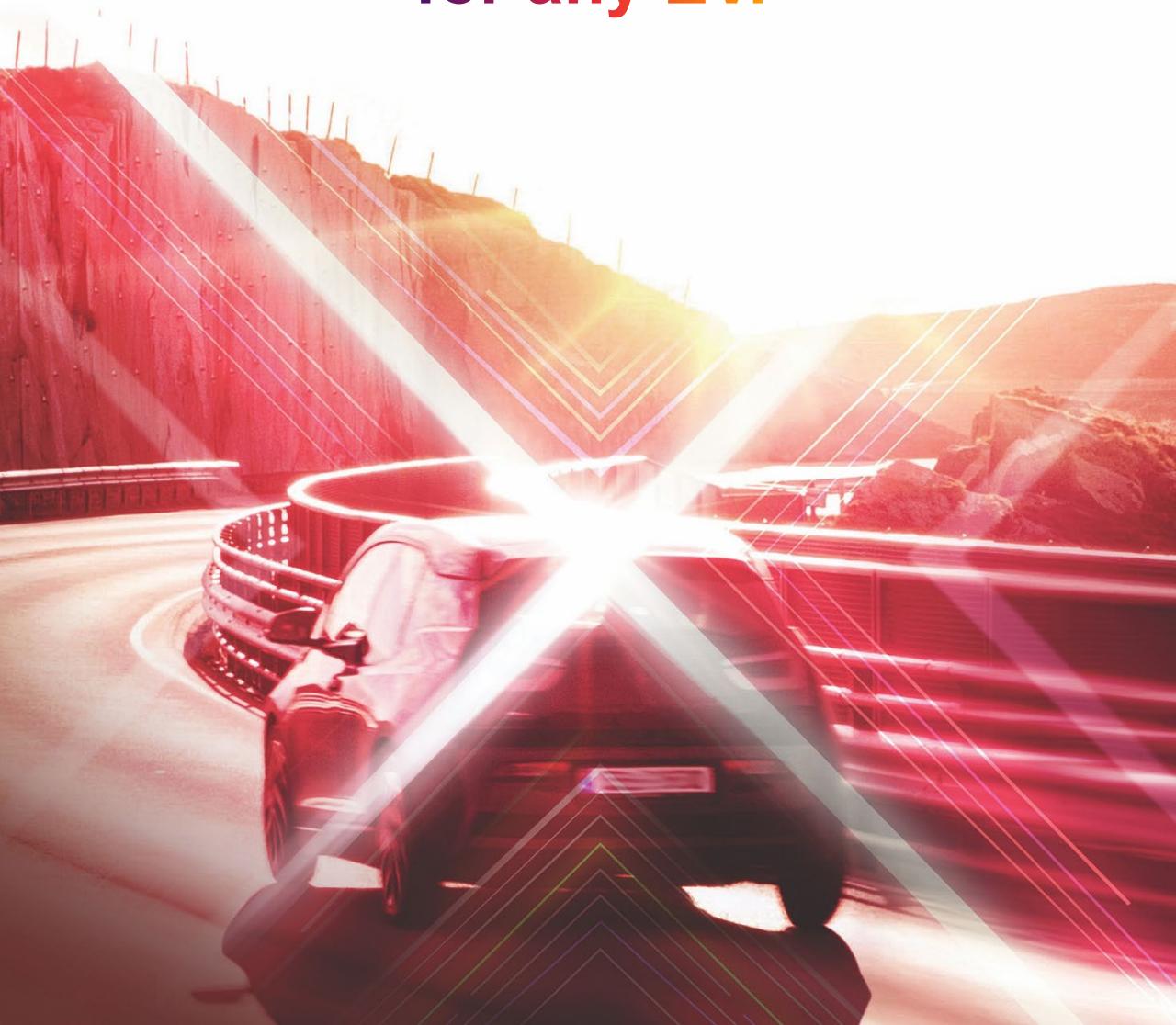
BMW amps up EV plans, sees 50% all-electric sales by 2030

Mini will reveal its final combustion model in 2025 and a "Neue Klasse" of radically different BMW EVs will bow the same year.

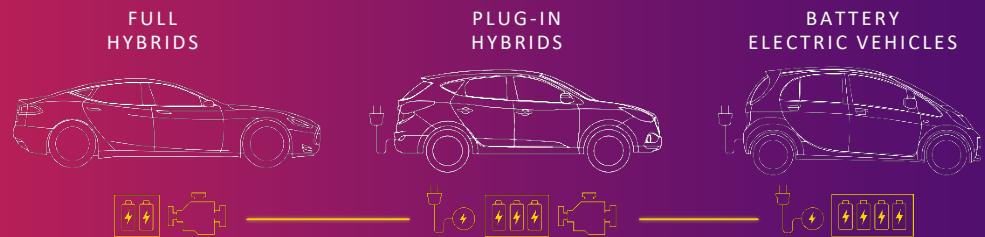
Tesla is using a new 12V Lithium-ion battery in the Model S Plaid



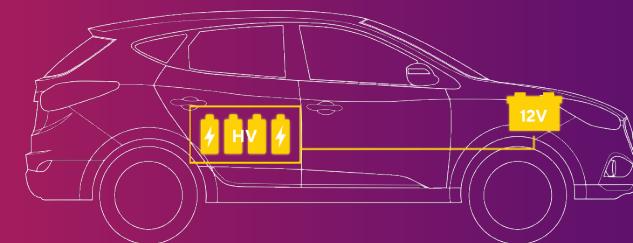
Clarios xEV. The Power of X for any EV.



A 12V battery lives inside every hybrid, plug-in hybrid and electric vehicle.



Working in perfect tandem with the vehicle's high-voltage battery, Clarios xEV delivers optimal vehicle performance, constant power and crucial safety.



PARKED

Vehicle security and software updates

DRIVING Starting and peak load support

SYSTEM FAILURE

Powering safety-critical loads

Performance for every state.

The Clarios xEV battery enables critical safety and performance functionality whether the vehicle is parked, driving or experiencing a high-voltage system failure.

CLARIOS XEV PORTFOLIO IS DESIGNED TO MEET THE POWER, ENERGY AND CYCLING DEMANDS OF ADVANCED VEHICLES.



- Offers reliable, durable and safe AGM products addressing OE performance & packing requirements
- Includes low-profile power optimized battery with reduced height offering maximizing application flexibility

WELL-POSITIONED IN LOW-VOLTAGE LI-ION

Solutions for Advanced Start-Stop and EV / Autonomous applications

- Significant customer engagement with legacy and emerging OEs
- Current production in U.S., EMEA and China
- 15+ years experience in Li-Ion
- Software and systems integration expertise
- Strategic partnership with CALB for LFP cell chemistry



 CLARIOS |  CALB

MAKING THE BATTERY AND VEHICLE COMMUNICATE. THAT'S SMART.

This is Clarios Smart AGM.

Real-time communication that:

- Identifies potential issues before they happen
- Provides emergency power critical for EV and autonomous vehicles
- Allows proactive replacement before failure
- Optimizes performance of the low-voltage power supply



Powering today, into tomorrow.

CLARIOS 2022

THANK YOU



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