



EcoG and NXP collaboration unveils next-generation EV Charge Controller at CES 2025

- *EcoG, a global EV charging solutions provider, has collaborated with NXP® Semiconductors to showcase the SEIC 3500 charge controller.*
- *Featuring NXP's i.MX 93 applications processor, the charge controller provides a secure, cost-efficient compact DC wallbox charging technology*

Detroit, Michigan, January 6th, 2025: EcoG (<https://ecog.io>), the global EV charging operating system and hardware solutions provider, is announcing its collaboration with NXP Semiconductors (<https://www.nxp.com>). As a part of the collaboration, EcoG is showcasing the first model of EcoG's fifth generation EV charge controller, the SEIC 3500, now fitted with NXP's i.MX 93 applications processor, at CES 2025. The EcoG SEIC 3500 creates a future-proof solution for the next generation of compact DC wallboxes or cost optimized DC dispensers for electric vehicle (EV) charging.

The EcoG SEIC 3500 is the first fully integrated¹ i.MX 93-based wallbox charge controller that offers high performance, real-time processing and advanced ISO 15118 specific security capabilities for EV owners. Designed specifically for DC fast-charging applications, the charge controller leverages the i.MX 93 applications processor's powerful and cost-efficient computing along with real-time performance to meet the high demands of modern charging systems with minimal physical footprint.

EcoG's fifth generation of EV charge controllers is designed to support the next step in scaling and integrating EV charging in a wide range of use cases globally. These include applications in fleets or depots, for scaling charging sites at retailers or along the highway, or innovative bidirectional charging at home or at work with grid support. It is well-suited for innovative solutions such as modular charging architectures, comprising power blocks and dispensers tailored to the specific requirements of each charging site. Additionally, the modular architecture meets the new control requirements for Megawatt Charging Systems (MCS), enabling seamless integration into high-power charging applications. EcoG's fifth generation of controllers benefit from proven hardware libraries, with EcoG's controllers being deployed reliably in more than 20,000 systems worldwide.

Future-proof charging solution

The SEIC 3500 offers Plug and Charge and ISO 15118-20-compliant bi-directional charging capabilities. Plug and Charge is the simplest and most secure way to charge electric vehicles; a driver only has to connect their EV's charging cable to the charge point, without additional steps involving RFID tags or additional applications, for the charging session to begin. This streamlined charging experience is facilitated among manufacturers and Original Equipment Manufacturers (OEMs) by ISO 15118, the international standard for EV charging that focuses on security and simplicity for end users.

¹ i.e. not based on a SOM design for cost and design optimization

EcoG has always been dedicated to further sophistication of the EV charging infrastructure and recognises that standardization and interoperability of EV charging systems are key. The SEIC 3500 has therefore undergone rigorous validation testing in near-series production models across various vehicle OEMs, ensuring interoperability with charging systems and vehicles.

A robust security framework

Leveraging the advanced security features of the i.MX 93 applications processor's integrated EdgeLock® Secure Enclave, the SEIC 3500 charge controller provides a comprehensive security framework. Its cryptographic tools protect charging solutions against unauthorized modifications and ensure reliable over-the-air updates, continuously supplying it with the most advanced security protection.

Commenting on the collaboration, [Joerg Heuer](#), CEO of EcoG, says: *"NXP's i.MX 93 applications processor allows us to offer a compact, highly secure, future-proof and attractively priced solution that addresses the growing needs of fast charging within the EV infrastructure. This collaboration further accelerates our vision to simplify all modes of EV charging for users worldwide."*

"The integration of our i.MX 93 applications processor in the EcoG SEIC 3500 demonstrates the power of collaboration in advancing EV technology," says [Alex Dopplinger](#), Senior Director, Power & Energy, NXP Semiconductors. *"NXP's expertise in secure and scalable systems solutions, combined with EcoG's innovation in EV charging, paves the way for transformative charging solutions that meet the demands of a rapidly growing market."*

For more information, visit [EcoG's website](#).

About EcoG

EcoG is a global IP and technology company dedicated to the rapid expansion of sustainable charging infrastructure for electric vehicles. With its charge controllers, reference designs, and software, EcoG enables companies to bring products and services to market quickly and scale profitably. Having secured more than 15% market share in Europe by 2022, EcoG's products serve industry giants such as Siemens and one of the world's largest gas station equipment suppliers and demonstrate a strong presence in the Indian and North American markets. The company continues to grow in 2025, with commitments to invest \$14.4 million via its North American headquarters in Detroit, Michigan.

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