Energy Plug and Quantum eMotion Launch Joint Steering Committee, Accelerate Quantum-Secure Battery Integration for Critical Infrastructure

written by Raj Shah | November 13, 2025

November 13, 2025 (Source) – **Energy Plug Technologies Corp.** (CSE: PLUG) (OTCQB: PLGGF) (FSE: 6GQ) and **Quantum eMotion Corp.** (TSXV: QNC) (OTCQB: QNCCF) (FSE: 34Q0) today announced the successful formation and first working session of the Joint Development Steering Committee established under their October 14, 2025, agreement.

The committee has already defined technical integration pathways to embed Quantum eMotion's hardware-based Quantum Random Number Generator (QRNG) chips directly into Energy Plug's next-generation energy storage systems. This marks a critical advancement beyond initial planning, enabling prototype development targeted for Q1 2026 field trials with Canadian defence and utility partners.

Key milestones achieved in the inaugural session:

- Architecture finalized for QRNG-secured firmware and encrypted battery management systems (BMS)
- IP co-ownership framework ratified under Canadian jurisdiction
- Pilot deployment roadmap approved, with first installations slated for secure telecom and microgrid sites

“Within weeks of signing, we’ve moved from concept to concrete engineering specifications,” said Dr. Ramtin Rasouli, CTO of Energy Plug.

Francis Bellido, CEO of Quantum eMotion, added: “Our QRNG silicon is now being designed into Energy Plug’s BMS at the chip level. This is one of the first known integration of space-grade quantum entropy into North American energy storage-delivering true post-quantum cybersecurity for critical systems.”

The collaboration addresses escalating threats: Canada’s energy sector faced 23% more ransomware attempts in 2024 than in 2022, with state-sponsored actors increasingly targeting grid control systems. QRNG-enhanced batteries will generate cryptographic keys with true quantum randomness, providing uncompromised entropy and eliminating entire classes of remote-exploitation attacks-even in a post-quantum environment [1].

[1] A comprehensive review of quantum random number generators: Concepts, Classification and the Origin of Randomness by V. Mannalath, S. Mishra & A. Pathak – *Quantum Information Processing*, 22:439 (2023)

About Quantum eMotion

Quantum eMotion Corp. (TSXV: QNC) (OTCQB: QNCCF) (FSE: 34Q0) is a Canadian deep-tech company developing **quantum-safe cybersecurity solutions** based on its patented Quantum Random Number Generator (QRNG) and Entropy-as-a-Service platform, securing data and communications for the quantum era.

For further information, please visit our website at https://www.quantumemotion.com/

About Energy Plug Technologies

Energy Plug Technologies Corp. (CSE: PLUG) (OTCQB: PLGGF) (FSE: 6GQ) is a leader in secure and resilient energy storage solutions, advancing next-generation battery technologies for residential, commercial, and utility applications. The Company is committed to enhancing grid stability, cybersecurity, and sustainable energy adoption, working in collaboration with leading technology firms, government agencies, and Indigenous communities.

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Forward-Looking Statements

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