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Electrovia Technologies and University of Tennessee - Chattanooga partner to advance high-powered dynamic wireless charging for medium and heavy-duty vehicles

NASHVILLE, TN. – Electrovia Technologies (Electrovia) and the University of Tennessee - Chattanooga (UTC) are proud to announce a pivotal step forward in the evolution of electric vehicle (EV) infrastructure. With a \$490,000 grant, this partnership will lead the development of a cutting-edge 25-foot demonstration project showcasing high-powered dynamic wireless charging systems for medium and heavy-duty vehicles.

The groundbreaking project will showcase Electrovia's cutting-edge wireless charging system, designed to efficiently charge vehicles in dynamic situations—at speeds ranging from 20-30 mph—in stop-and-go conditions typical of drayage truck queues, as well as in stationary settings. The initiative will be housed at UTC's newly established Advanced Mobility Research Facility, serving as an anchor project and hub for the latest advancements in mobility research and development.

“This partnership with UTC is a key step in accelerating Electrovia’s mission of enabling unlimited electric transport,” said Thomas Rush, CEO of Electrovia. “We’re proud to collaborate with UTC, as Tennessee holds tremendous potential to become a leader in mobility R&D, thanks to its world-class institutions, untapped skilled workforce and business-friendly environment. By demonstrating the capabilities of our high-powered dynamic and static wireless charging system, we’re not only unveiling the future of electric vehicle infrastructure but also setting the stage for its nationwide adoption.”

A key feature of this project is the debut of a dedicated Vehicle-to-Everything (V2X) system, enabling seamless wireless charging and communication between vehicles and charging infrastructure. This marks the first use of a V2X system specifically for the critical communication handshake required for safe and reliable wireless charging. This system paves the way for developing a standard in wireless charging, set to revolutionize the EV landscape.



This project is funded through the \$2.9 million Transportation Network Growth Opportunity (TNGO) initiative from the Tennessee Department of Economic and Community Development (TNECD). The TNGO Initiative is an economic development tool designed to connect statewide research assets, communities and talent to spark new research and innovation in this sector.

About Electrovia Technologies

Electrovia Technologies is at the forefront of revolutionizing electric transport by developing high-power dynamic and static wireless charging systems. Our mission is to enable unlimited electric transport through cutting-edge technology that initially powers commercial heavy-duty trucks, whether on the highway at speed, stop-and-go drayage applications, or in static opportunity sessions. Founded by a team of experienced engineers and innovators, Electrovia is driven by the belief that the future of transportation is electric, and our goal is to remove the barriers to widespread adoption. By focusing on American-engineered and American-made solutions, we are committed to not only advancing the technology but also creating jobs and infrastructure that support the transition to a more sustainable future. For more information on this project and Electrovia's ongoing efforts to revolutionize electric vehicle infrastructure, please visit www.electrovia.co.