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Electrovia Demonstrates 505 kW Wireless Power Transfer and Announces First Heavy-Duty Electric Truck Integration

COLUMBIA, Tenn. — Electrovia Technologies Corp, a developer of high-power wireless charging systems for electric vehicles, announced today the successful demonstration of 505 kilowatts (kW) of wireless power delivered to an automotive wireless charging assembly across a 10.5-inch air gap.

The demonstration, conducted at Electrovia's Columbia, Tennessee facility on Friday, June 5, delivered 505 kW of sustained wireless power to an automotive grade receiver — equivalent to simultaneously powering more than 300 homes — with no physical connection between the charging infrastructure and the vehicle. Electrovia supplied 554 kW to the charging pad and delivered 505 kW at the receiver across a 10.5-inch air gap, yielding approximately 91% system efficiency.

This demonstration represents the highest power level publicly reported for a wireless power transfer system designed to support both static and in-motion electric vehicle charging from the same core platform.

"At 500 kilowatts, wireless charging stops being a convenience feature and starts becoming serious freight infrastructure," said Thomas Rush, founder and Chief Executive Officer of Electrovia Technologies. "Delivering more than 500 kW wirelessly across a 10.5-inch air gap demonstrates that high-power wireless charging is not only possible, but practical for the next generation of electric vehicles, heavy-duty fleets, autonomous systems, and in-motion charging corridors."

The vehicle receiver used in the demonstration is approximately the size of a standard doormat and is designed for integration with existing and future vehicle platforms. The 500 kW-class power level is especially relevant for medium-duty and heavy-duty transportation, where high utilization, limited dwell time, and battery weight constraints create a need for faster and more flexible charging solutions.

As the next step in its commercial development program, Electrovia will conduct a joint demonstration with Windrose, a developer of long-range electric heavy-duty trucks, at Electrovia's Columbia, Tennessee facility. The demonstration will involve wirelessly charging a Windrose Class 8 truck using the same 500 kW-class OSPREY transmitter platform validated in today's announcement—marking the first heavy-duty vehicle integration of Electrovia's wireless charging system.

"Wireless charging at this power level removes one of the last operational barriers to long-haul electric trucking," said Wen Han, Founder and CEO of Windrose. "We're excited to validate this capability with Electrovia and accelerate the path to fleet-scale deployment of electric heavy-duty trucks."

Electrovia's wireless charging platform supports multiple use cases from a single core architecture, including stationary charging at truck terminals and distribution centers, stop-and-go port and warehouse operations,

and highway-speed dynamic charging while vehicles are in motion. The platform is also being evaluated for marine and aviation electrification applications.

This achievement was made possible in part through Electrovia's grant partnership with the University of Tennessee at Chattanooga under the TNGO initiative. The milestone also supports Electrovia's ongoing commercialization work with Oak Ridge National Laboratory, as the company advances its technology from prototype demonstration toward commercial-scale deployment.

"Today's result validates the core architecture," said Rush. "We're proud to be working with Wen and the Windrose team to take the next step. Demonstrating the system on an actual Class 8 truck is where the technology stops being a proof point and starts being a freight solution."

About Electrovia
Electrovia Technologies Corp. 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.