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Technical Alliance with WiTricity Corporation of U.S. in Wireless Power Transfer Technology for EVs

Tokyo-based Shindengen Electric Manufacturing Co., Ltd. (hereafter, Shindengen) has signed a license agreement on Wireless Power Transfer (hereafter, WPT) Technology with U.S.-based WPT technology developer WiTricity Corporation (of Watertown, Massachusetts, hereafter, WiTricity) in the field of electric vehicles (EVs).

By installing WPT system to an EV, the utility power can be transferred to a vehicle-mounted receiver coil cordlessly via a ground-based transmitter coil to charge vehicle-mounted batteries. WiTricity's WPT technology is referred to as a magnetic resonance coupling method, with features that include the ability to transmit electric power with high efficiency even when there is long distance between the transmitter coil and receiver coil. The fact that this method is highly robust against misalignment between the transmitter coil and receiver coil makes it suitable for EV charging application. Commercial development of this system can greatly improve convenience when charging EV batteries, only by bringing a car over to the transmitter coil installed at home or parking lot.

Shindengen is active in the vehicle-mounted products sector, which includes motorcycle electrical products where Shindengen boasts the top global share, as well as automotive semiconductor devices, on-board chargers (OBCs), converters, and electronic control units (ECUs), and in the industrial equipment sector with a wide range of power supply equipment such as ac chargers and dc quick chargers for the charging infrastructure. In the wake of this technology license agreement with WiTricity, Shindengen will utilize long-cultivated miniaturization and lightweight technologies of highly reliable automotive components, as well as highly efficient, compact and environment-resistant design technologies and communication/control technologies for infrastructure equipment, to promote early commercialization of WPT systems for EVs.

About WiTricity

WiTricity (established in Massachusetts, USA in 2007) develops solutions to enable wireless power transfer over distance using its patented magnetic resonance technology. WiTricity works with top global carmakers and Tier 1 suppliers to deploy magnetic resonance solutions, helping realize a future of transportation that is electrified, shared and autonomous. WiTricity supports consumer electronics, industrial and medical wireless solutions through licensee partners. See how WiTricity makes EV charging easy. Visit www.witricity.com, or follow on Facebook, Twitter and LinkedIn.

About Shindengen

Shindengen (established in Tokyo in 1949) is one of the few power electronics companies in the world that combines power semiconductor process technology, high-efficiency power conversion technology, and high-density packaging technology. Among the products being developed and manufactured at Shindengen are various power semiconductors, electrical devices for motorcycles and cars, telecom rectifier equipment, and various power conditioners for solar power and electric storage. By combining and developing its core technologies, Shindengen is creating products that will help realize a low-carbon society.