

June 26, 2023

Sinanen Holdings Co., Ltd.

## Entering a basic agreement to expand sales in the Japanese market with WiTricity, a company with EV wireless charging technology

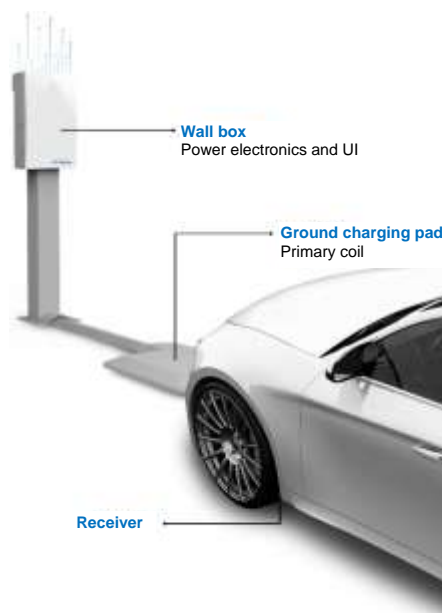
Sinanen Holdings Co., Ltd. (Headquarters: Minato-ku, Tokyo, President and CEO: Masaki Yamazaki, hereinafter "Sinanen Holdings"), a comprehensive energy, housing, and daily-life services provider, is pleased to announce that it has entered into a basic agreement for a future partnership with WiTricity Corporation (Headquarters: Massachusetts USA, CEO: Alex Gruzen, hereinafter "WiTricity"), a company that produces and sells EV (Electric Vehicle) wireless systems.

### ■WiTricity's wireless charging technology and products for EV

WiTricity is a high-tech company founded in 2007 as a spin-out of the Massachusetts Institute of Technology (MIT) by a team of physicists who were developing EV wireless charging technology.

WiTricity's wireless charging system "WiTricity Halo™" uses magnetic resonance method to supply power by resonating a magnetic field between a charging pad installed on the ground and a power receiver pad installed in the EV. This means that no cables are required to connect the EV to the charging device. Simply parking the EV over the charging pad and then turning off the engine (the power switch) will automatically start charging the vehicle. This system has a standard power delivery of 11 kW, enabling vehicles to be charged at the same power transfer rate and charging time as level 2 charging systems that require a cable. The receiver installed in the vehicle can be used with PHEV and BEV type vehicles. It is also possible to retrofit the receiver into existing EV depending on the model of the vehicle.

Furthermore, maintaining a constant EV wireless connection while using V2H (Vehicle to Home) and V2G (Vehicle to Grid) technology enables the EV to be used as a distributed power supply and emergency power supply. It is also expected that in the future it will be possible to charge vehicles while driving over roads with built-in charging equipment.



### ■Wall box

The wall box houses the necessary high-power electronics that convert the grid supply to high-frequency energy that is delivered to the charging pad.

### ■Charging pad (ground pad)

The charging pad contains the primary coil along with its ferrite, shielding, and resonant matching network that converts the high-frequency energy from the wall box to a magnetic field that can be used to efficiently transfer energy to the vehicle receiver.

### ■Vehicle receiver

The receiver in the vehicle captures the energy from the magnetic field produced by the charging pad and converts the energy to direct current for powering the electric vehicle and charging its battery.

Reference (charging method): WiTricity official YouTube channel “How Easy Could it Be to Charge Your EV?”

[https://www.youtube.com/watch?v=O3U\\_9QbkfL0&t=1s](https://www.youtube.com/watch?v=O3U_9QbkfL0&t=1s)

WiTricity has over 1,300 patents worldwide for wireless charging technology. Until now, this technology has been implemented by licensees, which include automobile manufacturers and electric power equipment manufacturers. However, Sinanen Holdings aims to begin general sales under the WiTricity brand along with the start of production for products such as “WiTricity Halo™” ground charging pads and vehicle receivers.

Accordingly, Sinanen Holdings and WiTricity have entered a basic agreement to build a partnership so that both companies can expand sales of WiTricity brand products in the Japanese market.

**■ A Japan expansion partner consistently responsible for importing and selling WiTricity products**

As a business partner for expanding WiTricity in Japan, Sinanen Holdings aims to import and sell WiTricity products in Japan to the general public through its subsidiary Sinanen Co., Ltd. Sinanen will also use its resources and those of the Group companies to promote the installation of receivers into existing EVs as well as install and increase the number of charging stations that have both wall boxes and charging pads. Sinanen Holdings Group actively promotes initiatives for the renewable energy business and selling clean energy with its vision of “Evolution into a comprehensive energy life creation group that contributes to achieving a decarbonized society” in its 3rd Medium-Term Management Plan, which it is currently working hard to achieve. By entering this basic agreement, the Group will achieve an enhanced menu of services for corporate and individual decarbonization by its addition of contactless charging systems for EV.

Sinanen Holdings Group will continue to increase the use of EV as well as contribute to achieving a decarbonized society and Sustainable Development Goals (SDGs) by promoting wireless charging systems throughout Japan in partnership with WiTricity.

**■ Sinanen Holdings Co., Ltd.:** <https://sinanengroup.co.jp/en/>

Founded in 1927, Sinanen Holdings Co., Ltd. is the holding company of a corporate group offering comprehensive services related to energy, housing, and daily life. With the mission of the Group to contribute to realizing a comfortable life for all customers in their communities through energy and home & life services, we provide Retail/Wholesale Energy & Related Business for consumers, Energy Solution Business for corporations, and non-energy businesses such as bicycle, bicycle sharing, environmental and recycling, system development, antimicrobial, building management and maintenance, and other services. We are also strengthening efforts to develop new environmentally-friendly businesses and corporate initiatives to achieve a decarbonized society.

[Media inquiries]

Kimura and Kiryu, PR Team, Corporate Planning Department, Sinanen Holdings Co., Ltd.

Tel: +81-3-6478-7807 Fax: +81-3-6478-7824 E-mail: [kouhou@sinanengroup.co.jp](mailto:kouhou@sinanengroup.co.jp)