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Energous Announces 1W Active Energy Harvesting Developer Kit to Support Over-the-Air Wireless Charging for IoT Applications

1W transmitter can charge multiple devices simultaneously.

SAN JOSE, Calif.--(BUSINESS WIRE)-- Energous Corporation (NASDAQ: WATT), the developer of WattUp®, a revolutionary RF-based wireless charging technology that supports charging of electronic devices at-a-distance, today announced the availability of its 1W Active Energy Harvesting Developer Kit. The 1W Developer Kit can charge multiple devices simultaneously, enabling at-a-distance wireless charging for the growing Internet of Things ecosystem. This technology represents the lowest cost, smallest size solution for any known active energy harvesting ecosystem.

This press release features multimedia. View the full release here:

<https://www.businesswire.com/news/home/20211006005979/en/>

The 1W Active Harvesting Developer Kit is complementary metal–oxide semiconductor (CMOS) based and features a smaller footprint than Energous' 5.5W kit [announced earlier this year](#). The kit leverages Energous' award-winning WattUp radio frequency (RF)-based wireless charging technology, delivering an over-the-air solution that enables device manufacturers to implement wireless charging and active energy harvesting for smart buildings, industrial IoT sensors applications, retail electronic displays and other connected devices.

Unlike passive solutions that harvest ambient energy from the surrounding environment, which typically offer extremely low amounts of power and can be unpredictable in terms of how much power is available, Energous' active energy harvesting solution includes a dedicated 6-inch transmitter that emits 1W of conducted power in a specific area or direction via its RF-based, WattUp wireless charging technology. This RF-based energy is harvested by Energous-enabled receiving devices, which can be combined with RF energy harvesting IC technology from e-peas. The Energous 1W active energy harvesting solution allows multiple devices to be simultaneously charged from a single transmitter.

“As the IoT ecosystem continues to expand, enabling manufacturers to develop devices that can be wirelessly charged over-the-air will be critical to its success,” said Cesar Johnston, acting CEO of Energous Corporation. “Our 1W Active Energy Harvesting Developer Kit allows developers to harvest RF-based energy at power levels much higher than passive solutions and supports charging of multiple, simultaneous receiving devices over-the-air, making it an ideal fit for a wide range of IoT applications across industrial, healthcare, consumer, smart home, and more.”



Energous WattUp 1W Active Energy Harvesting Transmitter (Photo: Business Wire)

The 1W Active Energy Harvesting Developer Kit includes one transmitter and one or more receiver units, is designed with e-peas' power management IC technology and a broad array of Energous and partner IP including:

- DA14682 SmartBond™ Bluetooth system-on-chip (SoC)
- DA4100 Wireless Power Transmitter SoC
- DA3210 Power Amplifier
- A discrete rectifier and a DA2210 WPT rectifier
- An e-peas AEM30940 harvesting PMIC
- Supercap energy storage device with support for a rechargeable lithium battery
- DA14531 BLE SoC
- An ambient light sensor and a temperature/humidity sensor

Energous WattUp technology provides an array of RF-based over-the-air and near field wireless charging solutions. For more information on how to purchase the developer kit, [click here](#).

To learn more about Energous, please visit Energous.com or follow the company on [Twitter](#), [Facebook](#) and [LinkedIn](#).

About Energous Corporation

Energous Corporation (Nasdaq: WATT) is the global leader of Wireless Charging 2.0 technology. Its award-winning WattUp® solution is the only technology that supports both contact and distance charging through a fully compatible ecosystem. Built atop fast, efficient, and highly scalable RF-based charging technology, WattUp is positioned to offer improvements over older, first-generation coil-based charging technologies in power, efficiency, foreign device detection, freedom of movement and overall cost for consumer electronics, medical devices, retail, military, industrial/commercial IoT, automotive, military, retail and industrial applications. Energous develops silicon-based wireless power transfer (WPT) technologies and customizable reference designs, and provides worldwide regulatory assistance, a reliable supply chain, quality assurance, and sales and technical support to global customers. The company received the world's first FCC Part 18 certification for at-a-distance wireless charging and has been awarded over 200 U.S. and international patents for its WattUp wireless charging technology to-date.

Safe Harbor Statement

This press release contains “forward-looking statements” within the meaning of the Securities Act of 1933, as amended, the Securities Exchange Act of 1934, as amended, and the safe-harbor provisions of the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical fact included in this press release are forward-looking statements. Forward-looking statements may describe our future plans and expectations and are based on the current beliefs, expectations and assumptions of Energous. These statements generally use terms such as “believe,” “expect,” “may,” “will,” “should,” “could,” “seek,” “intend,” “plan,” “estimate,” “anticipate” or similar terms. Examples of forward-looking statements in this release include but are not limited to statements about the future of the global wireless charging industry, the technology of Energous and our partners, the success of our collaborations with our partners or statements about any governmental approvals we may need to operate our business, and statements with respect to expected functionality and company growth. Factors that could cause actual results to differ from what we expect include: uncertain timing of necessary regulatory approvals; timing of customer product development and market success of customer products; our dependence on distribution partners; and intense industry competition. We urge you to consider those factors, and the other risks and uncertainties described in our most recent annual report on Form 10-K as filed with the Securities and Exchange Commission (SEC), any subsequent quarterly reports on Form 10-Q as well as in other documents that may be subsequently filed by Energous, from time to time, with the SEC, in evaluating our forward-looking statements. In addition, any forward-looking statements represent Energous’ views only as of the date of this release and should not be relied upon as representing its views as of any subsequent date. Energous does not assume any obligation to update any forward-looking statements unless required by law.

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