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# Energous and Syntiant Collaborate for Wireless Charging of Always-on Edge AI Processors

*Companies to Demonstrate Energous' WattUp PowerBridge Technology Combined With Syntiant's Ultra-Low-Power Deep Learning Architecture for IoT Network Edge Applications at CES 2022*

LAS VEGAS--(BUSINESS WIRE)-- Energous Corporation (Nasdaq: WATT), a leading developer of RF-based charging for wireless power networks, today announced a collaboration with [Syntiant](#), a provider of deep learning solutions making edge AI a reality for always-on voice, sensor and image applications, to develop and implement Energous' WattUp wireless power network technology with Syntiant's Neural Decision Processors™ (NDPs) for edge artificial intelligence (AI) deployments across a wide range of consumer and industrial use cases.

Demonstrations of the Energous and Syntiant technology will take place January 5-8 during CES 2022 in Las Vegas at the Energous booth (#51965) located on the show floor of the Venetian Expo Hall (formerly the Sands Convention Center).

California-based Syntiant combines the industry's most efficient silicon with a data platform and training pipeline, providing customers with low-cost, turn-key solutions that put deep learning processing into almost any edge device, free from cloud connectivity, ensuring privacy and security. The company's ultra-low-power NDPs are being designed into earbuds, wearables, medical devices, mobile phones, laptops, smart home appliances, as well as industrial IoT equipment and automobiles. Designed by applying a clean-sheet, hardware/software co-design methodology, Syntiant's AI processors deliver 100x more efficiency and 10x the throughput compared to current low-power microcontroller unit solutions.

"Deployment of IoT edge devices for industrial, retail and other applications is expanding as they enable new data processing capabilities," said Cesar Johnston, CEO of Energous. "With this expansion, however, comes concerns around delivering guaranteed levels of power to these billions of devices that are often significant distances away from a reliable power source. Our collaboration with Syntiant is aimed at addressing this challenge by integrating our WattUp receiver technology with Syntiant's deep learning technology for edge AI applications, enabling them to harvest RF-based energy from Energous WattUp PowerBridge transmitters."

"Syntiant's Neural Decision Processors help reduce infrastructure costs by moving AI processing from the cloud to the edge, reliably, securely and with nominal power consumption," said Kurt Busch, CEO of Syntiant. "We share a similar perspective with Energous that much of tomorrow's innovation is happening at the edge, and our

collaboration will successfully demonstrate both technologies working together, delivering power where it is not, while providing highly accurate, cloud-free inference across a wide range of consumer and industrial applications.”

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’ wireless power network solutions include a WattUp PowerBridge transmitter that emits conducted RF power in a specific area or direction. This RF-based energy is then harvested by receiving devices. Energous’ wireless power networks support “one to many” charging, allowing multiple devices to be simultaneously charged from a single transmitter. It is applicable to a wide range of industries and applications, from drug storage monitors and patient trackers in a healthcare setting, to smoke detectors and motion sensors in a smart home, to fault prevention, temperature and other safety sensors in an industrial environment.

For more information on Energous WattUp or to request a developer kit, please visit [energous.com](https://energous.com).

### **About Syntiant**

Founded in 2017 and headquartered in Irvine, Calif., Syntiant Corp. is a leader in delivering end-to-end deep learning solutions for always-on applications by combining purpose-built silicon with an edge-optimized data platform and training pipeline. Syntiant’s advanced chip solutions merge deep learning with semiconductor design to produce ultra-low-power, high performance, deep neural network processors for edge AI applications across a wide range of consumer and industrial use cases, from earbuds to automobiles. The company is backed by several of the world’s leading strategic and financial investors including Intel Capital, Microsoft’s M12, Applied Ventures, Robert Bosch Venture Capital, the Amazon Alexa Fund and Atlantic Bridge Capital. Syntiant continues to be recognized as an industry leader, being named to Gartner’s April 2020 Cool Vendors in AI Semiconductors; Fast Company’s prestigious list of the World’s Most Innovative Companies for 2020; as well as a CES® 2021 Innovation Awards Honoree and CES® 2020 Best of Innovation Awards Honoree. More information on the company can be found by visiting [www.syntiant.com](https://www.syntiant.com) or by following Syntiant on Twitter [@Syntiantcorp](https://twitter.com/Syntiantcorp).

### **About Energous Corporation**

Energous Corporation (Nasdaq: WATT) is the Wireless Power Network global leader. 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 industrial and retail IoT, smart homes, smart cities and medical devices. 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 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 other similar terms. Examples of our forward-looking statements in this release include, but are not limited to, our statements about the future of the global wireless charging industry, statements about our technology and its expected functionality, statements about any governmental approvals we may need to operate our business, statements with respect to the potential total addressable market for our current technologies and future products and statements with respect to expected company growth. Factors that could cause actual results to differ from current expectations include: uncertain timing of any 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, together with 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 subsequently filed quarterly reports on Form 10-Q, as well as any other documents that may have been 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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