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Grid-Evolving Tech Firm, RPSi, Receives First Patent Approval

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RPSi, a Minneapolis-based cleantech innovator of hardware and software solutions focused on enabling flexible and sustainable grid infrastructure, announced today that it has received formal notice from the U.S. Patent Office that its first patent, related to technology that enables grid-forming cooperative capability in electrical networks, will be issued before the end of the calendar year.

“We’re so excited about this news, because RPSi’s technology fundamentally changes the way in which electrical grids are formed and managed,” said Zachary Emond, CEO of RPSi. “This is the missing link that that will allow carbon-free energy resources to be added at scale without sacrificing grid stability.”

According to projections made by the U.S. DOE, electricity production in the U.S. will need to more than double in the coming decades to offset a shift away from carbon-based energy sources such as coal, oil and natural gas. At the same time, clean energy resources such as wind and solar will need to be added at 3 to 5 times their current rates to reduce CO₂ emissions and meet decarbonization goals for the power sector.

The challenge of rapidly doubling electricity production while simultaneously increasing the percentage of clean energy-based power generation is significant. The U.S. DOE has warned that the electrical grid is already facing serious capacity, stability and security concerns and cannot add sufficient clean energy capacity without developing new technologies such as grid-forming inverter capability.

“We’re seeing daily evidence of how the modern grid isn’t capable of adding clean energy resources at scale without sacrificing reliability,” said Emond. “Our technology mimics nature’s method of managing complex systems and allows the integration of unlimited quantities of clean energy resources into self-forming grids while increasing grid stability.”

According to Emond, next steps for RPSi’s technology include full-power prototype development and testing in real-world grid applications.

Learn More About RPSi

More information about RPSi and its nature-based technologies can be found by visiting <https://renewpower.us> or by contacting Scott Tracy, Director of Strategic Growth, at scott@renewpower.us or (952) 417-6790.

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