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Press

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Reactive Technologies improves grid stability monitoring precision with Siemens software

- **Reactive Technologies will use proprietary technology as well as Siemens' Gridscale X software to enhance visibility of grid stability challenges**
- **System optimizes power inertia and system strength measurement**
- **Offer is designed to meet growing demand for enhanced network studies, precise grid modelling, and improved grid operations and planning**

Siemens Smart Infrastructure will partner with Reactive Technologies, a leading Grid Enhancing Technologies (GETS) company, to accelerate the energy transition. Reactive Technologies will incorporate Siemens' Gridscale X transmission planning software, PSS®E, to support the transition to a resilient, low-carbon power grid future.

One of the key challenges for grid operators looking to accelerate the sustainable energy transition is gaining an accurate picture and real time view of inertia levels across assets. This means that they must often rely on fossil fuel generation to provide a reliable source of inertia to help deal with power failures across the grid. However, if grid operators can accurately monitor grid inertia in real time, they can rapidly respond to failures and unlock up to 30% more grid capacity through renewables.

Reactive Technologies' GridMetrix® technology generates real-time, accurate grid inertia data, empowering grid operators to reduce the risk of grid instability and blackouts more effectively and efficiently. By combining this technology with Siemens' Gridscale X software, PSS®E, Reactive Technologies can offer improved measurement of power grid inertia – the kinetic energy stored in generators, motors

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and condensers – and overall system strength to provide a real-time view of grid resilience for grid operators.

Through the partnership, different grid scenarios can be planned with greater precision, giving operators greater insight into how their current assets are performing and where best to target future capital investments.

Marc Borrett, the CEO of Reactive Technologies, said: “Power system simulations are a critical early-stage step in Reactive Technologies’ Research and Development process. The combination of real-world direct measurement data captured by our technology, and the power of Siemens’ PSS®E software now allow grid operators to simulate various network scenarios and drive data insights. As we transition to a resilient, low-carbon power grid future, this is vital as it provides actionable results for them to unlock the grid capacity by mitigating risks, reducing curtailments and planning more renewable resources assets.”

Magnus Torronen, Head of Siemens Grid Software Northern Europe, said: “Reactive Technologies is demonstrating its value and deep expertise not only in the UK but all around the world through its projects. PSS®E, part of Gridscale X software, now enhances this offering at a time when the market is eager for high quality, accurate data to help plan investment. The collaboration between Siemens and partners like Reactive Technologies is a vital part of how we develop the grid of the future, both in the UK and internationally. We share the same main goals of streamlining and accelerating the power sector’s transition to zero-carbon energy.”

About Gridscale X

With Gridscale X, Siemens offers modular software that paves the way for autonomous grid management. It empowers grid operators to accelerate digital transformation easier, faster, and at scale, thus solving their most pressing challenges of the energy transition efficiently and reliably. It is part of Siemens Xcelerator, an open digital business platform.

This press release as well as a press picture are available here.

For more information on Siemens Smart Infrastructure, please see Siemens Smart Infrastructure.

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Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings, and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions, and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2024, the business had around 78,500 employees worldwide.

Siemens AG (Berlin and Munich) is a leading technology company focused on industry, infrastructure, mobility, and healthcare. The company's purpose is to create technology to transform the everyday, for everyone. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformations, making factories more efficient, cities more livable, and transportation more sustainable. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a leading global medical technology provider pioneering breakthroughs in healthcare. For everyone. Everywhere. Sustainably.
In fiscal 2024, which ended on September 30, 2024, the Siemens Group generated revenue of €75.9 billion and net income of €9.0 billion. As of September 30, 2024, the company employed around 312,000 people worldwide on the basis of continuing operations. Further information is available on the Internet at www.siemens.com.