Orlando, April 13, 2026

Siemens Energy Opens AI Lab in Orlando to Transform Grid Operations

Siemens Energy today opened a new facility for using artificial intelligence (AI) to improve our electric grid. Located at the company's Innovation Center Orlando, the new Grid AI Lab integrates NVIDIA AI infrastructure with Siemens Energy grid expertise to train AI models that will enable utilities to better manage their grids in real time, optimizing operation and grid maintenance.

"Using artificial intelligence, we will be able to analyze the electrical grid in new and powerful ways and help to make it safer, more reliable and more efficient," said Adnan Chaudhry, Senior Vice President of Digital Grid at Siemens Energy. "We built this lab to provide a collaboration environment where customers, partners, universities and industry leaders will come together to co-create, experiment and accelerate the application of AI to real-world grid challenges."

Siemens Energy will work with customers to deploy and integrate advanced sensing technologies across the electrical grid, combining data from grid connected assets with aerial and geospatial data acquisition technologies. This multi-source data will be analyzed at the new Grid AI Lab to develop and validate AI driven insights that support grid planning, operations, and resilience—helping utilities operate the grid more efficiently and strengthen preparedness, response, and recovery for extreme weather events.

Siemens Energy is building high-fidelity, continuously evolving digital twins of physical infrastructure with NVIDIA Omniverse and Metropolis libraries. These digital twins allow engineering teams to visualize, simulate and collaborate in a shared digital environment, analyze asset conditions, visualize asset behavior and simulate future operating conditions. These AI applications, alongside work in academic and applied research, will open up entirely new opportunities to use the data from the power grid to address some of the challenges in the changing energy landscape.

"We are at an inflection point in energy, where the world's growing need for a sustainable grid demands a completely new architecture," said Marc Spieler, Senior Managing Director, Global Energy Industry at NVIDIA. "The Siemens Energy AI Lab is where this vision becomes reality. Uniting their domain expertise with the full power of NVIDIA AI infrastructure and NVIDIA Omniverse and Metropolis libraries, Siemens Energy is pioneering the creation of industrial digital twins that can be used to design, simulate, and optimize the flexible energy systems of tomorrow."

The Grid AI Lab will be a gathering place for AI experts from academia and industry and serve as an incubator for new grid technologies capabilities and opportunities for education and training.

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Siemens Energy's new Grid AI Lab will occupy an additional 6,000 square feet at it's Innovation Center Orlando, one of four Siemens Energy Innovation Centers globally which house cutting-edge research, development, and commercialization of innovative solutions. In addition to the investment for hardware and building infrastructure, Siemens Energy will continue investing in AI grid research and development on-site as well as hiring dedicated AI researchers and operators for the systems in the lab.

Siemens Energy executives, NVIDIA experts, Orlando Mayor Buddy Dyer and other leaders in the energy and technology fields participated in the opening of the Grid AI Lab today which included panel discussions about how the lab will enhance the transportation and delivery of energy.

"Orlando is proud to welcome Siemens Energy's Grid AI Lab, a groundbreaking investment that reinforces our community's position as a leader in innovation, sustainability, and advanced technology," said Orlando Mayor Buddy Dyer. "By bringing together cutting-edge AI, energy expertise, and strong partnerships with our local universities, this lab will not only help modernize the electric grid, but also create high-quality jobs and new opportunities for our community. We are excited to see Orlando play a key role in shaping the future of energy."

This expansion of the Innovation Center Orlando was announced as part of Siemens Energy's investment of $1 billion in the United States to expand manufacturing and services to serve the United States' unparalleled surge in electricity demand.

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Siemens Energy is one of the world's leading energy technology companies. The company works with its customers and partners on energy systems for the future, thus supporting the transition to a more sustainable world. With its portfolio of products, solutions and services, Siemens Energy covers almost the entire energy value chain – from power and heat generation and transmission to storage. The portfolio includes conventional and renewable energy technology, such as gas and steam turbines, hybrid power plants operated with hydrogen, and power generators and transformers.
Its wind power subsidiary Siemens Gamesa makes Siemens Energy a global market leader in renewable energies. An estimated one-sixth of the electricity generated worldwide is based on technologies from Siemens Energy. Siemens Energy employs around 103,000 people worldwide in more than 90 countries and generated revenue of €39.1 billion in fiscal year 2025. www.siemens-energy.com

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