Press release

Berlin, February 28, 2025

Siemens Energy to supply Rolls-Royce with turbines for Small Modular Reactors (SMR)

Siemens Energy and Rolls-Royce SMR have entered into a partnership agreement that is expected to lead to the exclusive supply of conventional technology for future Small Modular Reactors (SMR). Under this agreement, Siemens Energy is to be the sole supplier of steam turbines, generators, and other auxiliary systems for the British manufacturer's planned Generation 3+ modular nuclear power plants. The final contract, detailing all specifics, is expected to be completed by the end of 2025.

SMRs are considered a promising technology for the future of nuclear energy and a key factor in the success of the energy transition. They are more compact, safer, and more cost-efficient than conventional nuclear power plants. Rolls-Royce SMR is currently developing a "mini nuclear power plant" that can be operational much faster than traditionally built plants, thanks to its standardized, modular design. Rolls-Royce SMR's pressurized water reactors are designed to achieve an electrical output of up to 470 megawatts, enough to supply approximately 1.1 million households with electricity.

For decades, Siemens Energy has been a supplier and service provider of components for the so-called "power island," the non-nuclear part of the power plant. The company's solutions for nuclear power plants include steam turbines and generators with outputs ranging from 20 MW to 1,900 MW, as well as operational control technology and control systems.

Karim Amin, a member of the Siemens Energy Executive Board, commented: "We are currently experiencing a global renaissance of nuclear energy. Numerous countries are turning to nuclear technology to produce low-emission electricity, and small modular reactors will play a key role in this. Siemens Energy brings decades of experience in conventional equipment, while Rolls-Royce has the necessary implementation expertise. This perfect symbiosis enables us to jointly shape the future of energy supply. We are very pleased to be working with Rolls-Royce SMR on this exciting project."

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Are you curious about what "Small Modular Reactors" actually are and how they differ from conventional nuclear power plants? Access our factsheet and let one of our experts explain what SMRs really are.

We provide further information on SMRs here www.siemens-energy.de/press/SMR .

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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 for renewable energies. An estimated one-sixth of the electricity generated worldwide is based on technologies from Siemens Energy. Siemens Energy employs around 100,000 people worldwide in more than 90 countries and generated revenue of €34.5 billion in fiscal year 2024. www.siemens-energy.com

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