

GE Vernova's Synchronous Condenser technology to stabilize grid on French island of Guadeloupe

- *EDF SEI has chosen a consortium of GE Vernova's Power Conversion business and Eiffage Énergie Systèmes (consortium manager) to supply and install a turnkey synchronous condenser system at the EDF SEI TAC Jarry Sud plant in Guadeloupe, France.*
- *The solution will assist in stabilizing the island's electrical grid.*
- *As governments and industry work to reduce carbon emissions by increasingly relying on renewables, power plants must address rising grid instability and the need to update their installations.*

Paris, France: November 16, 2023 - Faced with the growing integration of renewable energy on its grid, EDF Systèmes Energétiques Insulaires (SEI) has selected a consortium of GE Vernova's Power Conversion business and Eiffage Énergie Systèmes to supply and install a turnkey Synchronous Condenser system at its EDF SEI TAC Jarry Sud thermal power plant in Guadeloupe.

The solution will assist in stabilizing the island's electrical grid by providing extra energy when there are sudden power issues or problems in the grid, helping to keep everything running smoothly. The Synchronous Condenser system utilizes Power Conversion's extensive experience in rotating machines technology and offers a carbon-free and cost-effective solution that mimics the synchronous inertia response provided by traditional thermal power generation.

"This project represents a leading reference for our [Synchronous Condenser](#) technology designed and built in France. We are delighted and proud to be supporting EDF SEI in helping the French island of Guadeloupe achieve its decarbonization objectives.", said [Eric Cotelte](#), general manager at Power Conversion, France.

The challenge of reducing carbon emissions at a global scale has led to the growing use of renewable energies, and these factors now require electricity production



companies to update their installations. In Guadeloupe, the use of renewable energy has grown from 23% in 2020 to 35% in 2022(1).

GE Vernova will supply a 200 MW.s/25 MVA [synchronous generator](#) along with its auxiliaries and the plant control system. Additionally, the contract includes a 12-year equipment maintenance agreement.

Eiffage Énergie Systèmes will be responsible for electrical distribution from the main transformer to the equipment's interface point, as well as civil engineering, installation, and site management.

(1) [The renewable energy electricity mix in Guadeloupe in 2022](#)

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About GE Vernova

GE Vernova is a planned, purpose-built global energy company that includes Power, Wind, and Electrification segments and is supported by its accelerator businesses of Advanced Research, Consulting Services, and Financial Services. Building on over 130 years of experience tackling the world's challenges, GE Vernova is uniquely positioned to help lead the energy transition by continuing to electrify the world while simultaneously working to decarbonize it. GE Vernova helps customers power economies and deliver electricity that is vital to health, safety, security, and improved quality of life. GE Vernova is headquartered in Cambridge, Massachusetts, U.S., with more than 80,000 employees across 140+ countries around the world. GE Vernova's **Power Conversion** business provides energy conversion technologies, systems, and services across the power and energy-intensive industries, driving the electric transformation of the world's energy and industrial infrastructure.

GE Vernova's mission is embedded in its name - it retains its legacy, "GE," as an enduring and hard-earned badge of quality and ingenuity. "Ver" / "verde" signal Earth's verdant and lush ecosystems. "Nova," from the Latin "novus," nods to a new, innovative era of lower carbon energy. Supported by the Company Purpose, *The Energy to Change the World*, GE Vernova will help deliver a more affordable,



reliable, sustainable, and secure energy future. Learn more: [GE Vernova](#) and [LinkedIn](#).

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