# GE Vernova and ESB to modernize Dublin Bay power plant to help boost efficiency and grid reliability

- GE Vernova’s Gas Power and Power Conversion & Storage solutions selected to increase performance of the existing GT26 gas turbines powering ESB’s Dublin Bay power station
- Modernization is expected to add nearly 30 megawatts (MW) of reliable power, helping to improve stability of the national grid and power more Irish homes
- The project aims to assist ESB’s decarbonization plans by installing upgrades with the potential to burn hydrogen blends in the future 

**DUBLIN, IRELAND** (September 8, 2025) – Electricity Supply Board (ESB) of Ireland and GE Vernova (NYSE: GEV) have announced a major life extension and modernization project for the Dublin Bay power plant, aimed at enhancing performance, reliability, increasing output, and supporting Ireland’s energy transition goals in line with ESB’s Net Zero by 2040 carbon emissions strategy.

Under a new contractual service agreement, GE Vernova will implement its GT26 High Efficiency (HE) upgrade along with its SEMIPOL™ technology for Static Excitation Equipment (SEE) and Startup Frequency Converter (SFC). This life extension project is expected to be completed in 2026.

Commissioned in 2002, the Dublin Bay facility currently generates up to 415 Megawatts (MW) using a single -shaft GT26 gas turbine.

The major life extension project is expected to deliver:

· **Up to 30 MW of additional power**, which is the power needed to supply the equivalent of approximately approximately 30,000 Irish homes annually

· **Efficiency gains of up to 1.8% at baseload**, leading to 5% carbon dioxide (CO2) reduction

· **Improved grid stability** through advanced excitation and frequency conversion systems

· **Lower carbon intensity**, supporting ESB's decarbonization strategy and enabling future use of hydrogen fuel blends.

"Although Dublin Bay is already one of our most efficient plants, we saw an opportunity in having an even more important role in delivering our Net Zero carbon emissions strategy by further enhancing its performance, reliability and sustainability." said **Arkadiusz Galant, Dublin Stations Manager, ESB**. "Our life extension project in 2026 will help us to deliver more power allowing us to provide electricity for Irish households over the next decade while being more efficient with lower emissions and enabling possible future hydrogen blends."

"This project builds on our long-standing partnership with ESB," said **Joseph Anis, President and CEO of GE Vernova's Gas Power business in Europe, Middle East, and Africa** "The GT26 HE upgrade and SEMIPOL™ technologies will not only increase output and efficiency but also provide the flexibility and reliability needed to support Ireland's evolving energy landscape."

**About the GT26 HE Upgrade**

Introduced in 2019 to support the utilization and competitiveness of the GT26 gas turbine, this upgrade integrates advanced technology from GE Vernova's F and H class fleets, including additive manufactured parts and innovations in aerodynamics, materials and combustion. The performance improvement that the HE solution can deliver is attributable to technology breakthroughs across every

major component of the GT26 gas turbine - turbine, compressor and combustor - that helps decrease fuel costs while increasing full-load output and extend maintenance intervals.

Located mostly in Europe, Middle East, Latin America and Asia, the GT26 gas turbine fleet of more than 100 units delivers an approximate total of 37 gigawatt of power capacity and can combust up to 40 percent of hydrogen with natural gas.

**About SEMIPOL™ Static Excitation and Startup frequency converter technology**

The Power Conversion & Storage business works with customers in utilities and industries that benefit from power stability solutions.  The combination of SEMIPOL™ SEE and SFC conversion systems are crucial for generator startups in gas power plants, synchronizing the generator on the grid, and managing the effects of grid power and frequency variation. This allows for smooth startups and helps to reduce mechanical stress, extend equipment life, and lower maintenance cost.  It has an installed base of over 1,000 SEE & SFC systems.

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**Notes to editors**

**Financial Editors:  Please note this order was booked in the first quarter of 2025.**

To learn more on the upgrade: https://vernova.is/4gjsCjI

**About ESB**

ESB was established in 1927 as a statutory body under the Electricity (Supply) Act, 1927. With a holding of 97.1%, ESB is majority owned by the Irish Government. The remaining 2.9% is held by the trustees of an Employee Share Ownership Plan. As a

strong, diversified utility, ESB operates across the electricity market, from generation through transmission and distribution, to supply of customers in addition to using our networks to carry fibre for telecommunications. ESB is the leading Irish utility with a regulated asset base of approximately €14 billion (comprising ESB Networks €11bn and NIE Networks €3bn), a 25% share of generation in the all-island market and retail businesses supplying electricity and gas to almost 1.9 million customer accounts throughout the island of Ireland and Great Britain. During the year ended 31 December 2024, ESB Group employed an average of 9,600 people.
Visit esb.ie to learn more about ESB.



**About GE Vernova**

GE Vernova Inc. (NYSE: GEV) is a purpose-built global energy company that includes Power, Wind, and Electrification segments and is supported by its accelerator businesses. 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 approximately 75,000 employees across approximately 100 countries around the world. Supported by the Company's purpose, The Energy to Change the World, GE Vernova technology helps deliver a more affordable, reliable, sustainable, and secure energy future.

GE Vernova's **Gas Power** business engineers advanced, efficient natural gas-powered technologies and services, along with decarbonization solutions that aim to help electrify a lower carbon future. It is a global leader in gas turbines and power plant technologies and services with the industry's largest installed base.

GE Vernova's **Power Conversion & Storage** business combines advanced energy conversion and storage systems to meet the electrification needs of utilities and industries. With a focus on industrial electrification, power stability, and energy storage solutions, Power Conversion & Storage empowers customers by addressing their most complex electrification challenges and accelerating their transition to a sustainable, decarbonized future.

**Forward-Looking Statements**

This document contains forward-looking statements – that is, statements related to future events that by their nature address matters that are, to different degrees, uncertain. These forward-looking statements often address GE Vernova's expected future business and financial performance and financial condition, and the expected performance of its products, the impact of its services and the results they may generate or produce, and often contain words such as "expect," "anticipate," "intend," "plan," "believe," "seek," "see," "will," "would," "estimate," "forecast," "target," "preliminary," or "range." Forward-looking statements by their nature address matters that are, to different degrees, uncertain, such as statements about planned and potential transactions, investments or projects and their expected results and the impacts of macroeconomic and market conditions and volatility on the Company's business operations, financial results and financial position and on the global supply chain and world economy.

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