

GE Vernova and YTL PowerSeraya kick off Post-Combustion Carbon Capture Feasibility Study in Singapore

- The Feasibility Study, which was granted by Singapore’s Energy Market Authority aims to explore the capture of at least 90 percent of carbon dioxide emissions at YTL PowerSeraya Pte Limited’s to be constructed 600 MW H-Class power plant using GE Vernova 9HA.01 Gas Turbine
- This marks the first-of-its-kind Post-Combustion Carbon Capture assessment for H-class Combined Cycle Gas Turbine plants in Singapore by GE Vernova
- GE Vernova will lead the study as an integrator of CCGT plant with a post-combustion carbon capture plant

SINGAPORE (October 27, 2025) – GE Vernova Inc. (NYSE: GEV) and YTL PowerSeraya Pte Limited (“YTLPS”) announced today the collaboration of the two companies on a feasibility study (“Study”) to analyze the lowering of carbon emissions of YTLPS’ H-Class Combined Cycle Gas Turbine (CCGT) plant on Jurong Island, Singapore.

Following the launch of a Power Sector Carbon Capture and Storage Grant Call by Singapore’s Energy Market Authority (“EMA”), in October 2024, which invited the power industry to explore potential carbon capture solutions as part of Singapore’s energy transition towards a low-carbon future, the EMA has selected five projects on 14 July 2025. Among these, YTLPS’ Post-Combustion Carbon Capture Study proposal was successfully selected to receive co-funding.

The Study is focused on retrofitting YTLPS’ H-Class CCGT with technology capable of capturing at least 90 percent of the plant’s carbon dioxide (CO₂) emissions. With

its proven expertise, GE Vernova will focus the Study on the seamless integration of the H-Class CCGT plant with post-combustion carbon capture technology, supported by three key technical solutions:

- Exhaust Gas Recirculation (“EGR”);
- Steam integration; and
- Controls integration

In comparison to traditional bolt-on post-combustion carbon capture solutions, the proposed GE Vernova’s advanced system integration with EGR technology allows a gas power plant with post-combustion carbon capture solutions to operate more efficiently and cost-effectively which reduces overall plant size, overall CAPEX and OPEX whilst also boosting overall integrated plant performance.

“We are enthusiastic that EMA awarded our 600 MW H-Class Combined Cycle Power Plant to study the integration of post-combustion carbon capture. Our participation in the GE Vernova-led study underscores our dedication to accelerating advanced solutions to potentially retrofit our power plant to achieve net zero emission, a vital step towards producing more sustainable energy for Singapore and our communities,” said **John Ng, CEO of YTLPS**.

“GE Vernova’s first-of-its-kind carbon capture assessment in Singapore proposes significant enhancements aimed at improving the proposed carbon capture process and reducing its impact on the power plants’ output, performance, and costs,” said **Ramesh Singaram, President & CEO of GE Vernova's Gas Power business in Asia Pacific region**. “GE Vernova will lead the full-scale integration of the study with the ultimate goal of lowering the net carbon emissions of the power plant. We remain committed to supporting the advancement of the region’s energy goals, working alongside carbon capture players to support YTL PowerSeraya’s decarbonization efforts.”

The announcement for the post-combustion carbon capture study was made at the sidelines of Singapore International Energy Week. This recent milestone follows other significant announcements for GE Vernova, including the selection for the



innovative Net Zero Teesside ([NZT](#) [Power project](#)), expected to be the world’s first gas-fired plant integrated with a carbon capture plant at commercial scale, and the [order of GE Vernova’s combined cycle equipment](#) to power YTLPS CCGT on Jurong Island, Singapore. The plant is expected to be powered by a 9HA.01 gas turbine, an STF-A650 steam turbine, a W88 generator, and a triple pressure with reheat Heat Recovery Steam Generator (HRSG).

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Notes to editors

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“Decarbonization”, as used in this article, is intended to mean the reduction of carbon emissions on a kilogram per megawatt hour basis.

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About GE Vernova

GE Vernova Inc. (NYSE: GEV) is a purpose-built global energy company that includes Power, Electrification and Wind 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



85,000 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.

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Media inquiries

Laura Aresi

GE Vernova | Media Relations Leader, Power
laura.aresi@gevernova.com

Zatalini Zulkiply

GE Vernova | Regional Communications Leader, Asia
zatalini.zulkiply@gevernova.com
+60 17 224 5752