IHI and GE Vernova achieve milestone with 100% ammonia combustion in large scale test

- IHI and GE Vernova have successfully demonstrated combustion of 100% ammonia using full-scale components at pressures, temperatures, and flows matching full-load conditions for GE Vernova’s F-Class gas turbines.
- Emission levels are aligned with the companies’ development roadmap; IHI and GE Vernova are continuing testing with prototype combustors.
- This project is expected to play a meaningful role in decarbonizing* the energy sector by enabling reduced or zero CO_2 emissions during combustion

TOKYO, JAPAN – ATLANTA, GA (March 18, 2026) – IHI Corporation (IHI) and GE Vernova Inc. (NYSE: GEV) announced today that they have successfully tested 100% ammonia combustion for GE Vernova’s F-class gas turbines. Emission levels achieved during the test align with the companies’ development roadmap towards the goal of a 100% ammonia-fired gas turbine, with the aim of achieving commercial deployment by 2030.

“An essential piece of the ammonia value chain is now coming into place,” said **Noriaki Ozawa, IHI Managing Executive Officer and President of Resource, Energy & Environment Business Area**. “Since the signing of the joint development agreement in 2024, the collaboration between our two companies has gained strong momentum, with the efforts of both teams now bearing fruit. The successful achievement of 100% ammonia combustion in a full-scale F-class gas turbine marks a major milestone and helps reinforce the decarbonization roadmap envisioned by our customers in the power sector.”

The demonstration was conducted at IHI's purpose-built test facility, engineered to replicate GE Vernova's F-class gas turbine operating conditions.

"The successful demonstration of running an F-class gas turbine on 100% ammonia fuel marks a pivotal step in our journey toward a lower-carbon energy future," said **Jeremee Wetherby, GE Vernova's Carbon Solutions leader. "**This achievement reinforces our development roadmap and underscores the strength of our collaboration with IHI. We see significant potential for ammonia as a carbon-free combustion fuel and are energized to continue working together to help unlock its role in advancing global decarbonization."

###

Notes to editors

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

Ammonia is utilized today in industrial applications such as the production of fertilizer. When used as a carrier for hydrogen, ammonia enables a more efficient and lower-cost pathway for transport and storage. In addition, ammonia is expected to be utilized directly in power generation as a carbon-free fuel, since ammonia contains no carbon, it does not emit carbon dioxide when burned and may therefore enhance the power sector's efforts in reducing carbon emissions. (Note: any air-based combustion, even if operating on a carbon free fuel, will emit a trace amount of carbon dioxide based on the concentration of CO_2 in the atmosphere.)

About IHI

IHI is dedicated to creating Value Chains that generate new value for customers, originating from the establishment of Japan's first modern shipyard in 1853. It leveraged its shipbuilding technology to expand into onshore machinery, bridge,

plant, aero-engine, and other manufacturing fields. IHI has provided an array of solutions in recent years. These are principally in the Resource, Energy and Environment; Social Infrastructure; Industrial Systems and General-Purpose Machinery; and Aero Engine, Space and Defense business segments. In power generation, the Company manufactures boilers and gas turbines for thermal power plants. It is developing technology for ammonia firing and is constructing carbon-free fuel ammonia supply chain to help decarbonize the economy. Click below for more information about IHI.

https://www.ihi.co.jp/en/

Media inquiries

Yusuke Saito
Corporate Communication Division,
IHI Corporation
saito4137@ihi-g.com

© 2026 GE Vernova and/or its affiliates. All rights reserved.
GE and the GE Monogram are trademarks of General Electric Company used under trademark license.

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.

https://www.gevernova.com/
GE Vernova

Media inquiries

Laura Aresi

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

Kanika Arora

GE Vernova | Communications Leader, South Asia
kanika.arora@gevernova.com

Zatalini Zulkiply

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