GE Vernova's HA gas turbine fleet achieves two million operating hours

- *GE Vernova's H-Class combined cycle power plant is one of the most responsive and flexible in the industry, enabling grid operators to dispatch power quickly, complementing intermittent renewable sources*
- *Fleet now has an installed capacity of more than 47 gigawatts (GW) of power, the equivalent capacity needed to power over 35 million American homes*
- *With the highest number of H-Class units achieving commercial operation over the last 5 years, GE's HA gas turbines is the fastest growing fleet in the heavy-duty gas turbines H-Class segment globally*

ATLANTA - September 7, 2023 – GE Vernova's Gas Power business (NYSE: GE) today celebrated a milestone as its advanced H-Class, heavy-duty gas turbine fleet has accumulated more than two million commercial operating hours across 88 units globally. The fleet is one of the most responsive and flexible in the industry, enabling grid operators to dispatch power quickly as both baseload and to complement intermittent renewable sources. Since the first commercial operation of the company's flagship HA gas turbine in 2016, the HA fleet now boasts an installed capacity of 47 gigawatts (GW) of power, the equivalent capacity needed to power 35 million American homes.

"As a company whose equipment helps generate approximately 30 percent of the world's electricity which includes the world's largest gas turbine fleet, we take seriously our role as a leader in the industry's decarbonization progress, helping to solve the trilemma of delivering more sustainable, reliable, and affordable energy," said **Amit Kulkarni, Head of Product Management at GE Vernova's Gas Power business**. "We're thrilled to reach this latest milestone for our proven HA fleet which is helping power plant operators reduce emissions, increase efficiency, retire coal-fired facilities, and integrate greater levels of renewable energy globally. With more than 80 units in commercial operation, our HA fleet is the fastest-growing fleet in the H-class heavy-duty gas turbine segment in the world. We are celebrating this latest milestone with all our HA plant customers worldwide."

HA Milestones

In 2021, the company celebrated the fleet achieving the first million operating hours and the first commercial operation of GE Vernova's 9HA.02 gas turbine—one of the world's largest and most efficient 50 Hertz (Hz) models – at Southern Power Generation's 1.4-GW Sultan Ibrahim Power Plant (Track4A), in southern Malaysia. The plant was recognized by POWER Magazine as their "2021 Power Plant of the Year" and by Diesel & Gas Turbine Worldwide as "Power Plant of the World".

In 2022, GE Vernova announced the first commercial operation of the 7HA.03 technology at Florida Power & Light Company's Dania Beach Clean Energy Center. The 7HA.03 gas turbine is the next evolution of the HA platform and the largest, most efficient, and flexible 60 Hertz (Hz) gas turbine with the lowest cost conversion of gas to electricity currently in operation globally.

Many HA combined cycle power plants play a crucial role in facilitating the coal-to gas transition and provide the necessary power to balance the variable nature of renewables to help ensure energy system reliability and grid stability. In the United States for example, Indeck Niles, a natural gas-fired combined cycle plant in Michigan, is using two 7HA.02 turbines, which can ramp power up or down quickly. By doing so, they can support the growth of renewables, which rely on other sources to step in when wind or solar isn't available. Similarly, in Europe, HA gas turbines will power the Ostroleka C combined cycle power plant in northeast Poland. The flexible and efficient natural gas fired plant will enable Poland to increase its energy security while continuing to phase out coal and expand the deployment of renewable and nuclear energy resources.

GE Vernova continues to advance gas power technologies toward zero-carbon power generation. Part of this evolution includes both pre-combustion solutions with hydrogen and post-combustion solutions with carbon capture and sequestration.

- Pre-combustion capabilities: Our H-Class gas turbine portfolio currently has the capability to burn up to 50 percent by volume of hydrogen when blended with natural gas. This capability is enabled by the DLN2.6e combustion system that is standard on current 9HA.01/9HA.02/7HA.03 gas turbines offerings with a technology roadmap to achieve 100 percent hydrogen burn capability in this platform by 2030. At Long Ridge Energy Terminal, a 7HA.02 gas turbine demonstrated the power plant was capable of operating on blends of hydrogen successfully. Guangdong Huizhou combined cycle power plant, powered by two 9HA.01 gas turbines, is expected to be the first to burn hydrogen blended with natural gas in mainland China.

- Post-combustion capabilities: H-class combined cycle plants can be configured with a carbon capture system to reduce CO2 emissions by up to 90 percent. These projects build on GE Vernova's capabilities in technology integration, expertise in natural gas combined cycle plant engineering, operability, and plant integration.

"This latest milestone is just the beginning for our HA fleet," Kulkarni said. "We will continue to work with our customers and partners to introduce breakthrough technologies for a lower-carbon future including improved hydrogen burning capabilities and carbon capture, storage and sequestration systems."

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About GE Vernova
GE Vernova is a planned purpose-built global energy company comprising of Power, Wind, and Electrification segments and 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 70,000 employees across 140+

countries around the world.

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 energy future with security. Learn more: GE Vernova and LinkedIn.

GE Vernova's Gas Power business
GE Vernova's Gas Power business is a world leader in natural gas power technologies, services, and solutions. Through relentless innovation and continuous cooperation with our customers, we are providing more advanced, cleaner and efficient power that people depend on today and building the technologies of the future. With the world's largest installed base of gas turbines and more than 670 million operating hours across GE Vernova's installed fleet, we offer advanced technology and a level of experience that's unmatched in the industry to build, operate, and maintain leading gas power plants. For more information, please visit www.ge.com/power/gas and follow GE Vernova's Gas Power businesses on Twitter and LinkedIn.

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