GE Vernova launches SF_6-free compact switchgear for space-constrained high-voltage substations

- New 145 kV, 40 kA HYpact-145g compact switchgear uses g3, a mixture of carbon dioxide, oxygen and fluoronitrile (CO_2/O_2/C4F7N), instead of sulfur hexafluoride (SF_6)
- Designed to take up at least 50% less space than a conventional air-insulated substation
- Technology expands GE Vernova's GRiDEA™ portfolio of high-voltage transmission solutions

Cologne, Germany (November 17, 2026) - GE Vernova Inc. (NYSE: GEV) today announced the launch of the HYpact-145g, a new 145 kV SF_6-free advanced compact switchgear for high-voltage transmission networks. It was unveiled at the Power Transmission and Distribution Technology conference in Cologne. It gives network operators another SF_6-free option as they modernize and reinforce substations where space is limited.

High-voltage switchgear is an essential safety device on the electricity network. It stops the flow of electricity quickly when a fault occurs, which helps protect equipment and keeps the wider power system running reliably. Switchgear is used in transmission substations, where high-voltage lines and major electrical equipment connect.

Many operators need to upgrade substations in places where there is little room to expand. The HYpact-145g is a hybrid design that combines gas-insulated and air-insulated components in one compact unit. GE Vernova designed it to reduce space requirements by 50% or more compared with a conventional air-insulated

substation, while meeting the performance and reliability expected on transmission networks. It uses g^3, a gas mixture of CO_2 and oxygen with a small amount of fluoronitrile (C_4F_7N), in place of SF_6, a potent greenhouse gas.

The switchgear builds on more than a decade of GE Vernova's experience with g^3 and on its development of a 145 kV SF_6-free dead tank circuit breaker. Engineering teams further tested and advanced that technology for the compact switchgear. It expands the GRiDEA™ portfolio, which brings together technologies designed to support the safe, reliable and efficient operation of electricity networks while helping customers reduce reliance on SF_6.

The HYpact-145g is also designed for digital operation. It offers optional low-power instrument transformers (LPITs), also called digital voltage and current transformers, which measure voltage and current for monitoring and control.

“Operators want to move away from SF_6 without giving up the performance, reliability, compactness and optimal carbon footprint their substations require," said **Luc Doms, Strategy & Product Management Leader, GE Vernova's Electrification segment**. "The HYpact-145g is another important addition to our range of SF_6-free technology, offering operators greater choice and flexibility as they upgrade their systems.”

The 145 kV, 40 kA switchgear is planned to be manufactured at GE Vernova's facility in Kassel, Germany, and is available to order now.

GE Vernova is showcasing a full-scale 145 kV SF_6-free model at Stand 8026 during the conference, which runs November 17 to 19. Visitors can meet GE Vernova's Electrification experts and learn more about the company's high-voltage transmission portfolio.

Learn more about GE Vernova’s GRiDEA™ and SF_6-free high-voltage technologies here,

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GE Vernova's **Electrification** segment includes Grid Solutions, Power Conversion & Storage — collectively referred to as Electrification Systems — and digital technologies, referred to as Electrification Software. The solutions offered by this segment are essential for the transmission, distribution, conversion, storage, and orchestration of electricity from point of generation to point of consumption.

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