GE Vernova marks 10 years of SF_6-free innovation with launch of new 170 kV gas-insulated switchgear

- New F35g 170 kV gas-insulated switchgear completes GE Vernova's SF_6-free GIS range for transmission grids
- Launch marks ten years since GE Vernova introduced its first product using g^3 technology as an alternative to SF_6
- Manufactured in Europe, the new GIS is available for order following its launch at CIGRE Paris 2026

PARIS, France, (August 26, 2026) – GE Vernova Inc. (NYSE: GEV) today announced the launch of its new 170 kV SF_6-free gas-insulated switchgear (GIS) at CIGRE Paris 2026, expanding its GRiDEA^{TM} portfolio of technologies designed to help utilities reduce the carbon emission impact of high-voltage electricity infrastructure.

The launch comes ten years after GE Vernova introduced its first product using g^3 technology, developed as an alternative to sulfur hexafluoride, or SF_6. SF_6 has traditionally been widely used in high-voltage electrical equipment because of its strong insulating properties, but it is also a potent greenhouse gas.

GIS is used in substations to safely control and protect the flow of high-voltage electricity. Its compact design makes it particularly important where space is limited, including in urban substations and other constrained locations.

The new F35g 170 kV GIS is designed to provide utilities with the performance, reliability and compact footprint expected from conventional high-voltage GIS, without using SF_6 .The launch of the F35g 170 kV completes GE Vernova's SF_6-free

GIS range for transmission grids, spanning 72.5 kV, 145 kV, 170 kV, 245 kV and 420 kV.

“Over the past decade, the challenge has evolved from simply finding an alternative insulating gas to designing high-voltage equipment that can help customers reduce carbon emission impact across the life cycle of their infrastructure without compromising performance,” **said Yannick Kieffel, Power Transmission Chief Technology Officer, GE Vernova**. “The F35g 170 kV is the latest step in that journey, giving customers another option as they move away from SF_6 while continuing to build the reliable and compact transmission networks they need.”

A decade of g³ development

Since the first g³ product was introduced in 2016, GE Vernova has progressively expanded the technology across its high-voltage portfolio. The new 170 kV GIS extends that work into another widely used transmission voltage range and supports utilities seeking to reduce their reliance on fluorinated greenhouse gases.

The F35g 170 kV is also digital-native, integrating monitoring and digital capabilities intended to give operators greater visibility into equipment condition and performance. The product is designed to meet both IEC and IEEE requirements, supporting its use across different electricity markets.

As part of its product development approach, GE Vernova also uses Life Cycle Assessments (LCAs) to evaluate carbon emissions across stages including raw material extraction, manufacturing, transportation, use and end of life. These assessments are intended to help identify opportunities to reduce global warming impact beyond the insulating gas itself.

Development of the F35g 170 kV GIS has been partially supported through France 2030, operated by ADEME, supporting the development and industrialization of technologies intended to contribute to France’s transition toward lower-carbon infrastructure.

The new GIS will be manufactured by GE Vernova in Europe and is available for order following its official launch at CIGRE Paris 2026.

The F35g 170 kV forms part of GE Vernova's GRiDEA™ portfolio, which brings together technologies focused on reducing the carbon footprint of electrical equipment while supporting the reliability and performance required by critical grid infrastructure.

Visitors to CIGRE Paris 2026, August 23–28, can learn more about the F35g 170 kV and GE Vernova's broader SF_6-free portfolio at Stand C93.

Learn more about GE Vernova's GRiDEA™ portfolio here.

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