



GE Renewable Energy  
Grid Solutions



$g^3$  is a revolutionary gas for the electrical transmission industry, offering the same technical performances as  $SF_6$  but with **environmental impact reduced by more than 99%**.

## $g^3$ BENEFITS

When used in high voltage (HV) switchgear, the Global Warming Potential (GWP) of  $g^3$  gas is reduced by more than 99% compared to  $SF_6$ . In other words, the **residual gas GWP is less than 1% of that of  $SF_6$** .



$g^3$  products feature the **same performance and dimension** as  $SF_6$  products



Utilities can **adopt best practices** in terms of environmental sustainability



Utilities may qualify for **tax reduction or incentives** related to greenhouse gas emissions reduction

## $g^3$ EXPERIENCE



**4 MILLION+ TONS OF CO<sub>2</sub> EQUIVALENT**

To date,  $g^3$  projects have avoided the installation of 4 million+ tons of additional greenhouse gas on electrical networks



**50+ LEADING UTILITIES**

have decided to use equipment with  $g^3$  gas

✓	$g^3$ Gas-Insulated Substations 145 kV <b>50+ sites - 500+ bays</b>
✓	$g^3$ Gas-Insulated Substations 420 kV <b>4 sites - 60+ bays</b>
✓	$g^3$ Gas-Insulated Lines 420 kV <b>10+ sites - 20+ kilometers</b>
✓	$g^3$ Live Tank Circuit-Breakers 145 kV <b>10+ sites - 100+ LTCB</b>

## $g^3$ VISION

Products available  
**TODAY**



420 kV  
145 kV



145 kV

**2026**  
a wide portfolio

GE is committed to enabling a decarbonized future of energy and will **continue to expand its  $g^3$  high voltage product portfolio** through the decade\*

\*This roadmap is for forecasting purposes. This roadmap could potentially evolve due to factors including the global market situation and ongoing regulatory updates, which could impact customers opting for  $SF_6$ -free substations.



# g<sup>3</sup> ROADMAP

