



GE Renewable Energy  
Grid Solutions



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

## $g^3$ MULTIPLE BENEFITS

Applied to HV Switchgear, the  $g^3$  gas Global Warming Potential (GWP) is reduced by more than 99% lower compared to  $SF_6$ . In other words, the **residual gas GWP is less than 1% of that of  $SF_6$**

The environmental benefits of  $g^3$  are not limited to global warming mitigation. A Life Cycle Assessment (LCA) demonstrates that using  **$g^3$  improves all the environmental indicators** compared to  $SF_6$



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



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



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

## $g^3$ EXPERIENCE



**40+ LEADING UTILITIES** have decided to use equipment with  $g^3$



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

To date,  $g^3$  projects have avoided the installation of 1 million+ tons of additional greenhouse gas on electrical networks



|   |   |
|---|---|
| ✓ | $g^3$ Gas-Insulated Substations<br>145 kV, -25 °C<br><b>40+ sites - 300+ bays</b> |
| ✓ | $g^3$ Gas-Insulated Substations<br>420 kV, -25 °C<br><b>1 site - 9 bays</b>       |
| ✓ | $g^3$ Gas-Insulated Lines<br>420 kV, -25 °C<br><b>10 sites - 5000+ meters</b>     |
| ✓ | $g^3$ Live Tank Circuit-Breakers<br>123 kV, -30 °C<br><b>10+ sites - 100+ LT</b>  |

## $g^3$ FULL RANGE READY TOMORROW

**TODAY**  
Available products



420 kV  
145 kV



145 kV

**2026**  
a wide portfolio

GE is committed to enabling a decarbonized energy future 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

