

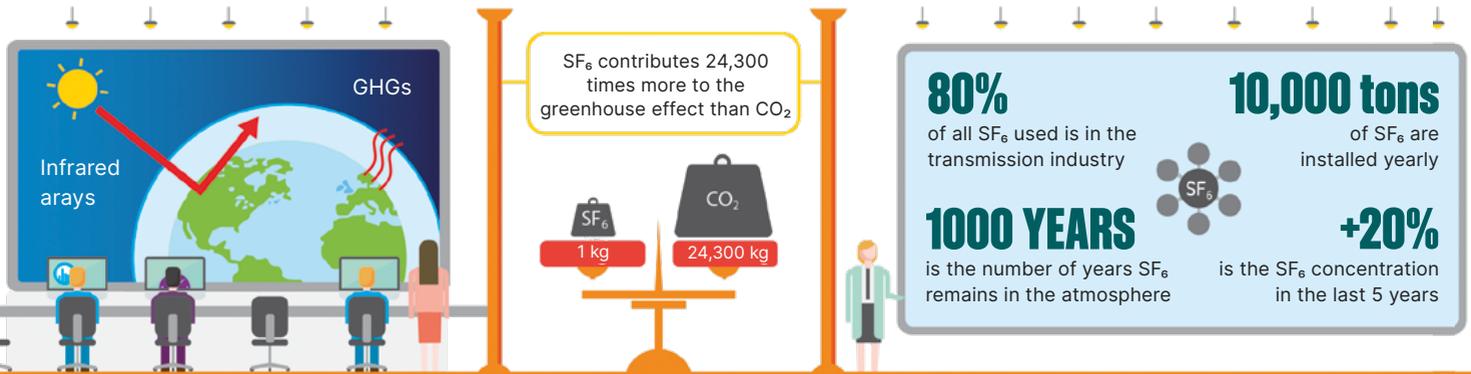


g³ is a revolutionary gas for the electrical transmission industry, offering the same technical performances as SF₆ with a global warming potential reduced by about 99%. g³ is part of GRiDEA, our portfolio of solutions designed to accelerate the decarbonization of the grid.

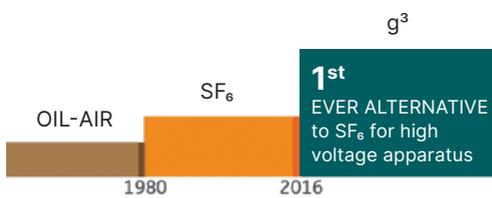
SF₆ IS A GREENHOUSE GAS WITH A STRONG GLOBAL WARMING POTENTIAL



The 10 most recent years are the warmest on record. Greenhouse Gases (GHGs) are the root cause of the, Greenhouse Effect, causing climate change throughout the world.



THE g³ REVOLUTION



Replacing 1 kg of SF₆ with ~1/2 kg of g³

Saving of



16 CARS running one year (10,000 km each)

OR

Saving of



1 CAR circling the Earth 4 times



g³ products operate under the same ambient conditions and temperature ranges as state-of-the-art SF₆ products. (-25°C and -30°C)

Same dimensions, and same technical performance with a drastically reduced GWP impact of gas releases to atmosphere

THE BENEFITS OF g³ OVER SF₆



Global Warming Potential of g³ vs SF₆



Utilities can adopt best practices in terms of environment sustainability



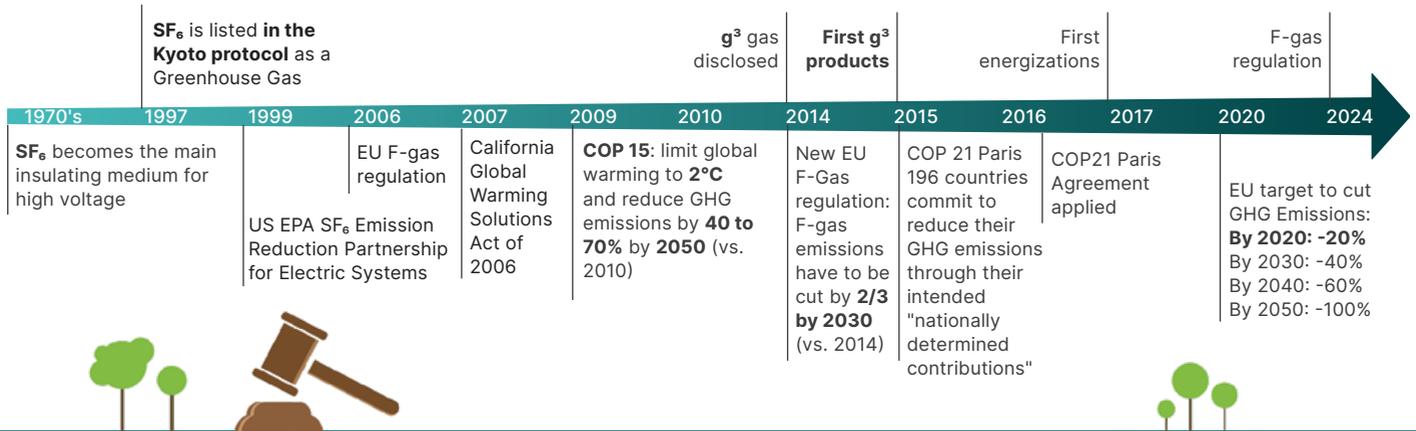
Utilities may qualify for tax reduction or incentives related to greenhouse gas emissions reduction

* Source : <https://climate.nasa.gov/vital-signs/global-temperature/>



g³ is an insulating and switching medium based on a CO₂-O₂ gas mixture with a small percentage of an additive that is C₄F₇N. The scope of g³ supply, g³ handling devices, and g³ monitoring solutions is covered by third-parties.

GLOBAL TREND TOWARDS MORE STRINGENT SUSTAINABILITY STANDARDS



GRIDEA g³ PRODUCT PORTFOLIO



Gas-Insulated Switchgear

- [F35g up to 72.5 kV](#)
- [F35g up to 145 kV](#)
- [B105g up to 245 kV](#)
- [T155g up to 420 kV](#)
- [GIL/GIB up to 420 kV](#)



Dead Tank Circuit-Breakers

- [DT1-72.5g 50 up to 72.5 kV](#)
- [DT1-145g 63 up to 145 kV](#)

The functioning of this equipment relies upon a gas mixture based on CO₂/O₂ and a small percentage of an additive, C₄F₇N, a fluorinated greenhouse gas, which helps preserve dimensions and performance equivalent to those of SF₆ equipment while reducing the gas carbon footprint. This component's physical properties are essential to g³.

For the weight, GWP and CO₂e of g³ in each product, see the relevant brochure (link at left).

Example with 100 metres of 3-phase Gas-Insulated Line (GIL), considering gas emissions (average 0.5% p.a.) over 40 years

GIL filled with SF₆
6,415 tons
equivalent CO₂



GIL filled with g³
68 tons
equivalent CO₂



Example with a carbon tax at 25€/ton of CO₂

TAX SAVING
150 k€

20-30% of CAPEX

For more information, visit governova.com/grid-solutions

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