

## G3 Alternative Gas To Sf6 For Use In High Voltage Switchgears

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Green Gas for Grid - g3 - SF6 Free Solutions  
ALTERNATIVE GAS TO SF 6 ... sulfur hexafluoride (SF 6). This gas has relatively high dielectric strength, good thermal conductivity, is non- ... and to be easily handled on site for gas filling or topping up. g3 mixtures: 50 g3 mixtures are based on 3MTM NovecTM 4710.

G3 Alternative Gas To Sf6 For Use In High Voltage Switchgears

The ambition of GE's LifeGRID program is to help reduce greenhouse gas emissions from high-voltage substations via the development of a greener switchgear. The area of focus for LifeGRID is for climate change mitigation through the use of GE's g 3 as an SF 6-alternative gas in circuit breakers."Because 420 kV is the highest voltage level used in most European countries, a proven g 3 ...

G3 Alternative Gas To Sf6  
g<sup>3</sup>, G3 (pronounced "g<sup>3</sup> cubed) is GE's game-changing alternative to SF 6 SF6 gas, developed for HV electrical transmission equipment. g<sup>3</sup> G3 products feature the same ratings and same dimensional footprint as the state-of-the-art SF 6 SF6 ones, with a drastically reduced environmental impact: more than 99% less gas global warming potential (GWP), comparatively.

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Eco-efficient gas-insulated switchgear  
With g3, a fluoronitrile and CO2 gas mixture, GE was able to develop a suitable operational alternative with a GWP brought down by 98% compared with SF6. g<sup>3</sup> as an electrical insulation and switching medium. First, ... The key difference between g3 and SF6 is that g3 is a gas mixture while SF6 is a single gas.

g3 ALTERNATIVE GAS TO SF6 FOR USE IN HIGH VOLTAGE SWITCHGEARS  
g 3™, (pronounced "g<sup>3</sup> cubed) is GE's environmentally friendly alternative to SF 6 gas, developed for HV electrical transmission equipment and using 3M Novec 4710 gas. g 3™ products feature the same ratings and same dimensional footprint as the state-of-the-art SF 6 equipment, with a drastically reduced environmental impact.

Green Switching: A sustainable alternative for SF6 gas ...

At the 2015 Hanover Fair, Alstom is presenting two first high-voltage applications using g 3 (green gas for grid), a gas mixture that can replace SF 6 for high voltage air-insulated (AIS) or gas-insulated switchgear (GIS) applications. SF 6 is a potent greenhouse gas commonly used as an electrical insulator. In August 2014, Alstom became the first company in the world to offer the electrical ...

Development SF6 Alternative Gases in Switchgears ...  
Gas Density at 14.5 psia (lb/ft<sup>3</sup>) 0.49 Vapor Pressure (psia) 36.5 Dielectric Strength at 14.5 psia, disk electrodes, 0.1 in gap (kV) 27.5 Introduction 3M™ Novec 4710 Insulating Gas is a sustainable alternative to sulfur hexafluoride (SF 6) for electrical equipment insulation and arc quenching applications.

(PDF) Characteristics of g3 – an alternative to SF6  
In August 2014, GE unveiled g3 (g cubed) its ground-breaking solution for replacing SF6 in high-voltage equipment. Since then, much has happened. g3 products have been installed successfully in several countries, and g3 life-cycle assessments have underscored the huge environmental benefits of the new gas mixture.

g3—The Alternative to SF6 for High-Voltage Equipment ...  
This paper deals with the characteristics of partial discharge (PD) in green gas for a grid (g3), which is thought to be a promising eco-friendly alternative to substitute SF6 used in electrical ...

The EU contributes to the development of SF6-free 420 kV ...

As a pioneer in SF6 gas handling with over 50 years of experience, we were able to combine tradition with the requirements of new gas mixtures. Even if Alternative Gases are used, the gas must be recovered from the gas compartment during service works. The air must then be evacuated and the gas compartment refilled. In this respect, the ...

Alstom unveils worlds first high-voltage equipment ...

For decades, the unique properties of sulfur hexafluoride (SF 6) have made it popular as an insulation and switching medium for electrical switchgear.However, SF 6 is a greenhouse gas and there are life-cycle management costs associated with its use.. For some years, ABB has been conducting research into alternatives with lower environmental impact but with insulation and arc interruption ...

3M Novec 4710 Insulating Gas

ABB's AirPlus™ technology is a revolutionary technology from ABB, and an alternative to sulfur hexafluoride (SF 6) gas. Four years ago, at CIRED 2015 in Lyon, France, ABB announced the world's first eco-efficient AirPlus switchgear at the Oerlikon substation of Swiss utility ewz.

An alternative to SF6 in electrical switchgear - EE Publishers  
SF6 is a Green house gas. § SF6 has a GWP of 23.500 § SF6 has a life span in the atmosphere of about 3.200 years § CARB regulates utilities to reduce their SF6 leak-rate PG&E alternatives to SF6 initiative §Discontinue SF6 purchases for MV (<60kV) equipment 2017 §Investigate alternatives for HV (>60kV) equipment 2016-2017

Insulating Gas - 3M Novec

g3—The Alternative to SF6 for High-Voltage Equipment. Conference Paper ... The review focuses on the application of the SF6-alternative gases in gas-insulated switchgear, ...

News Room : GE Grid Solutions

Alternatives for SF6 urgently sought In most of the world's substations sulfur hexafluoride (SF 6 ) is the insulating gas of choice. Still, due its potential climate impact, industry is looking for environmentally friendly solutions – and they have options.

Alternatives for SF6 | 2020 | Siemens Energy Global

SF6 is the most potent of the six main greenhouse gases, with a GWP of 23,000 (5). The United Nations institution that monitors this, the Intergovernmental Panel on Climate Change (IPCC), has since added SF6 gas to the list of extremely harmful greenhouse gases. The Kyoto Treaty (1992) stipulates that emissions of SF6 gas must be reduced.

Eco-efficient alternatives to SF6: Continuing the AirPlus ...

The fluoroketone-based SF6 alternative gas mixture is a chemical compound developed for switchgear applications by Hitachi ABB Power Grids in collaboration with 3M. It has a dielectric performance similar to SF6 when utilized in indoor applications, but with very low Global Warming Potential (GWP)\*.

g3, the SF6-free solution in practice | Think Grid

The interrupting alternatives to SF6 gas which could be considered for retro-fitting into existing switchgear under laboratory conditions are g3 and vacuum technology. Also these main technical view point must be considered in alternative gases:

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