

Replacing SF₆ in electrical gas-insulated switchgear - Impact analysis for EU 28

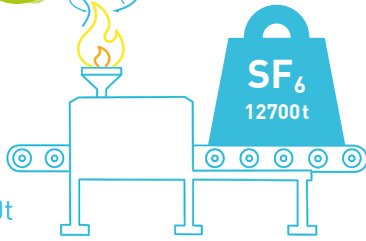
The following figures are based on an independent study from the University of Antwerp*

The global warming potential of SF₆

Installed base, EU 28 in 2017

Equivalent to over
250 million t
CO₂ if released

Range:
10800 - 24700t

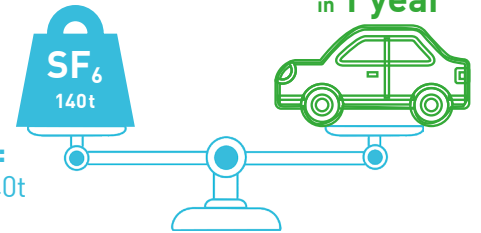


Annual Emissions, EU 28 in 2017

Equivalent to over
3.3 million t
CO₂ emissions

Range:
68 - 140t

2.3 million cars
in 1 year



The estimated SF₆ stock of 2050

The SF₆ stock is set to increase by 51% following the increased energy demand in the next two decades

+51%
SF₆



Phase Out scenario starting 2025 to 2050 (for Medium Voltage & High Voltage)

Eliminating up to
6.8 million t CO₂

Replacing up to
4.7 million cars
in 1 year



3M is at the forefront of driving change in the energy market, towards a more sustainable model.

3M created molecules with similar features as **SF₆**

Novac insulating gases are designed to **reduce** greenhouse gas impact by **more than 99%**

3M™ Novac™ Insulating Gases

combine excellent dielectric performance and safety with exceptional environmental properties. Used as part of a gas mixture, Novac Insulating Gases are a good SF₆ alternative and are suitable for both medium- and high-voltage applications. They are non-flammable and non-ozone-depleting.