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NEWS



## Cerius, an example of a green-alternative distribution utility using g3

Successful towards a more sustainable electrical transmission and distribution Grid

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*Denmark has decided to pave the way and be at the forefront of the energy transition. Their plan is to become a green and resource-efficient economy entirely independent of fossil fuels by 2050\*.*



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*This Danish SF<sub>6</sub>-free substation, using g<sup>3</sup>, has just been installed in Haslev. Over the next months the bays will be successively energized*

Denmark has decided to pave the way and be at the forefront of the energy transition. Their plan is to become a green and resource-efficient economy entirely independent of fossil fuels by 2050\*.



For the Danish utility and distribution system operator, CERIUS, the environment is a high priority. GE is helping them reach their goals

toward a more sustainable future by reducing global warming caused by greenhouse gases (GHG), and particularly SF<sub>6</sub>, a very potent GHG that has 23,500 times the Global Warming Potential compared to CO<sub>2</sub> and has a lifetime in the atmosphere of 3,200 years.

GE's SF<sub>6</sub>-free solution is the groundbreaking Green Gas for Grid known as g<sup>3</sup>, an environmentally-friendly alternative to SF<sub>6</sub> as an insulating and switching gas in high-voltage (HV) equipment. While keeping the same efficiency, it has a considerably lower impact on the environment, thus fully supporting CERIUS's green vision.

CERIUS has ordered six bays of F35-72.5 kV g<sup>3</sup> gas-insulated substation (GIS), including a circuit-breaker bay, for its Haslev substation in the south of Sjælland, located 60 km from Copenhagen. The substation is supplying power to more than 11,000 people. When asked about the reason why CERIUS choose g<sup>3</sup> instead of SF<sub>6</sub>, it was obvious that g<sup>3</sup> was the right solution: *"SF<sub>6</sub> is an aggressive greenhouse gas and is commonly used in HV equipment. We would like to be at the forefront of testing this alternative."* This is demonstrated by achieving a significant reduction of CO<sub>2</sub> emissions with 1,850 tons of CO<sub>2</sub>-equivalent not entering the atmosphere, it is a reduction of more than 99%.

In order to support its strong environmental focus and greenhouse gas policy, Denmark has put in place a high tax on SF<sub>6</sub> import (80 € per kg): *"g<sup>3</sup>-alternative from GE's Grid Solutions was the most technically and economically optimized solution for our project"* stated Jimmi Hvass Marcussen, CERIUS Team Leader. In addition, the project has created development in the region and improved quality of life for CERIUS' customers and stakeholders. This is an important goal for CERIUS who takes this responsibility toward future generations very seriously, endorsed by GE.

CERIUS's trust in g<sup>3</sup> has been proven to be the right solution for their challenge. Satisfied by GE's SF<sub>6</sub>-free GIS and the execution of their first g<sup>3</sup> project, Cerius has just placed a second order for eight F35 bays for their Naestved substation, confirming their confidence in GE's Grid Solutions SF<sub>6</sub> alternative gas.

\* <https://denmark.dk/innovation-and-design/clean-energy>

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