

# High-voltage switchgear cannot store energy

Is there an environmentally friendly switchgear for the high-voltage level?

After the revision of the European F-Gas regulation 517/2014, the investigation has been even more intensified. One option for an approach for realizing an environmentally friendly switchgear for the high-voltage level is a combination of gas circuit breaker (GCB) and vacuum circuit breaker (VCB) in a series connection.

What challenges are facing the high-voltage sector?

Explore the multifaceted challenges confronting the high-voltage sector amid the urgent demands for cleaner energy and enhanced grid reliability. Welcome to the Power Pulse podcast blog series, where we delve into the exciting world of energy.

How does high-voltage equipment affect the environment?

Moreover, the high-voltage industry faces mounting pressure to reduce its environmental impact, as traditional equipment operates on sulfur hexafluoride, or more commonly known as SF<sub>6</sub>, contributes to the world's greenhouse gas emissions.

Why is high-voltage equipment important?

High-voltage equipment and power quality products serve as fundamental pillars of our modern infrastructure. High-voltage not only facilitates the transmission of electricity across vast distances but also plays an essential role in ensuring that power is distributed efficiently and reliably to meet the growing needs of urban and rural areas alike.

Why should you choose Hitachi energy?

At Hitachi Energy, we are committed to solving some of the biggest global challenges of our time by advancing a sustainable energy future for all. The high-voltage industry is essential for delivering electricity to millions of homes and businesses, serving as a backbone for modern infrastructure.

How can high-voltage power grid systems improve environmental efficiency?

Innovation of power grid systems and high-voltage equipment introduce products with lower carbon dioxide footprint during their full life cycle. The environmental efficiency is measured by the product's CO<sub>2</sub> footprint, considering both the raw materials used and the emissions generated throughout its entire life cycle, from cradle to grave.



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