Gas-insulated high-voltage switchgear
for DC applications: DC GIS – smaller footprint, greater freedom

High-voltage, direct current (DC) current transmission is ideal for transporting efficiently large amounts of power over long distances. The current is converted from alternating current (AC) to DC at the beginning and end of the transmission line. It allows the transmission of different transmission technologies which are interconnected in transmission stations. However, the space for the necessary switchgear is usually very limited.

The solution: the highly compact DC GIS from Siemens. This space-saving switchgear is hermetically sealed against environmental influences, operates reliably for decades and is hermetically sealed against harmful environmental influences. This increases design freedom, for example when it comes to city planning.

DC GIS have a small footprint and thus take up little space. DC GIS have a small footprint and thus take up little space. DC GIS can be adapted to any area, be it densely populated regions and offshore applications.

• Offshore wind energy: DC GIS is ideal for lowering costs even further. Designed for demanding offshore applications, DC GIS fit into any urban and natural landscape unobtrusively and without harming the environment. DC GIS meet every requirement: reliability for decades and high availability.

• Onshore converter stations: The space-saving switchgear is usually not sufficient.

• Transmission stations: The current is converted from alternating current (AC) to direct current (DC) and back again at the beginning and end of the transmission line. Different transmission technologies which are interconnected in transmission stations. However, the space for the necessary switchgear is usually very limited.

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For use in...