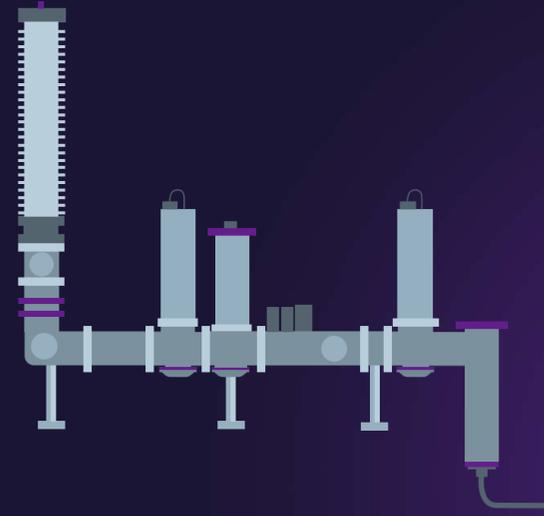


Based on many years of proven technology:

DC GIS switchgear from Siemens Energy builds on the Siemens Energy AC GIS design, with DC-specific components such as the insulator.

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

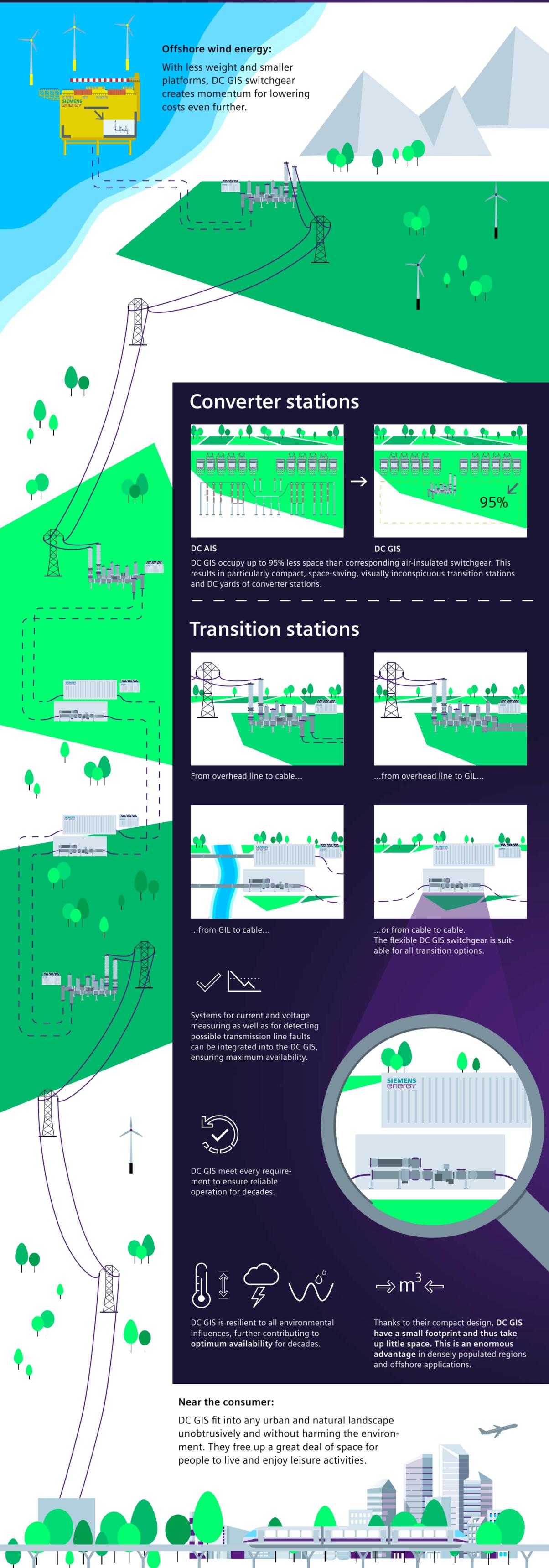


High-voltage, direct current transmission is ideal for transporting efficiently large amount of power over long distances. The current is converted from alternating current (AC) to direct current (DC) and back again at the beginning and end of the transmission line. It is often transmitted via different transmission technologies which are interconnected in transition stations. However, the space for the necessary switchgear is usually not sufficient.

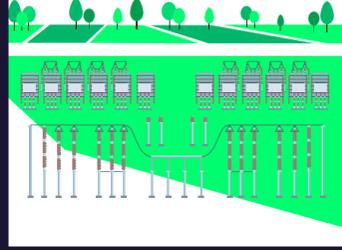
The solution: the highly compact DC GIS from Siemens Energy. This space-saving switchgear is hermetically sealed against environmental influences, operates reliably for decades and can be used flexibly for many different tasks. This increases design freedom, for example when it comes to city planning.

## Offshore wind energy:

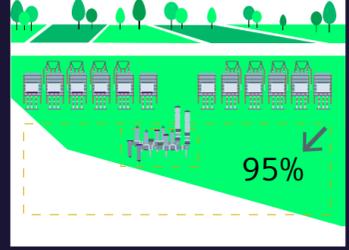
With less weight and smaller platforms, DC GIS switchgear creates momentum for lowering costs even further.



## Converter stations



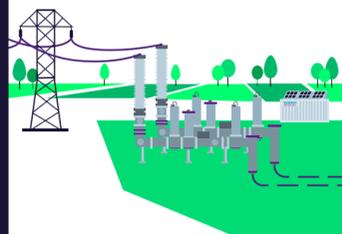
DC AIS



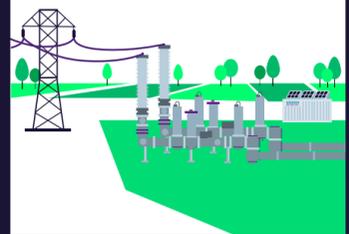
DC GIS

DC GIS occupy up to 95% less space than corresponding air-insulated switchgear. This results in particularly compact, space-saving, visually inconspicuous transition stations and DC yards of converter stations.

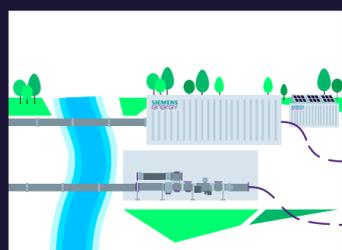
## Transition stations



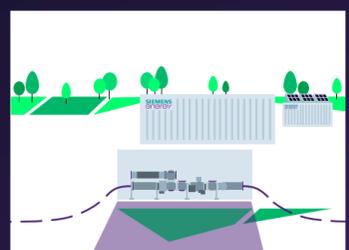
From overhead line to cable...



...from overhead line to GIL...



...from GIL to cable...



...or from cable to cable. The flexible DC GIS switchgear is suitable for all transition options.



Systems for current and voltage measuring as well as for detecting possible transmission line faults can be integrated into the DC GIS, ensuring maximum availability.



DC GIS meet every requirement to ensure reliable operation for decades.



DC GIS is resilient to all environmental influences, further contributing to optimum availability for decades.



Thanks to their compact design, DC GIS have a small footprint and thus take up little space. This is an enormous advantage in densely populated regions and offshore applications.

## Near the consumer:

DC GIS fit into any urban and natural landscape unobtrusively and without harming the environment. They free up a great deal of space for people to live and enjoy leisure activities.

## DC GIS switchgear has many benefits

- **Significant space savings** through a 95% smaller footprint compared to air-insulated DC switchgear
- **Proven basis** through building upon the AC GIS design established more than 50 years ago
- **Reliable operation** through hermetic sealing against environmental influences
- **Excellent return on investment** through many years of reliable operation and high availability
- **Harmonious integration** through unobtrusive architectural and landscape design, including a container version that can be used underground
- **Modularity** through flexible implementation of different layouts thanks to a modular arrangement