

# Kriegers Flak Combined Grid Solutions (FK CGS) Interconnecting grids



ABB Id No: POW0110

## Integrating renewable power and enabling energy trade between Denmark and Germany.

Energinet.dk SOV, (Denmark) and 50Hertz Transmission Gmb (Germany) have awarded ABB a contract to supply a complete turnkey, back-to-back converter station.

This 410 MW HVDC station connects the Kriegers Flak offshore-grid to the German grid in Bentwisch, northern Germany. The HVDC system will help secure the energy supply in Denmark as well as support energy trading with Germany and integrate four offshore wind farms.

ABB will design, engineer, supply and install the converter station, including high-voltage equipment such as power transformers, converter valves, cooling systems and a state of the art MACH control and protection system.

HVDC Light technology provides sophisticated features to the network such as the “black-start” power restoration capability and exceptional power control, to regulate the system with changes in the wind speed.

### Main data:

Commissioning year:	2019
Power rating:	410 MW
No. of poles	2
AC voltage:	Germany side: 400 kV Offshore side: 150 kV
DC voltage:	±140 kV
Type of link:	Back-to-back station
Main reason for choosing HVDC:	Interconnecting asynchronous grids
Application:	Interconnecting grids