

INTERCONNECTING GRIDS

Kriegers Flak

Combined Grid Solution (KF CGS)



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01 Bentwisch 410 MW
back-to-back HVDC
converter station.

Energinet.dk SOV, (Denmark) and 50Hertz Transmission GmbH (Germany) have awarded Hitachi ABB Power Grids 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.

Integrating renewable power and enabling energy trade between Denmark and Germany

Hitachi ABB Power Grids has designed, engineered, supplied and installed 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. efficient transmission.



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Kriegers Flak, Combined
Grid Solution.

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Inside of Bentwisch 410
MW back-to-back HVDC
converter station.



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Main data

Commissioning:	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 Light®	Interconnecting asynchronous grids
Application:	Interconnecting grids

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