Kriegers flak combined grid solution Marshall Islands

What is the Kriegers Flak - combined grid solution?
The Kriegers Flak - Combined Grid Solution is the world's first hybrid interconnector/OWP system.

What is a Kriegers Flak Interconnector project?
The extension of one of the two Kriegers Flak substation platforms at sea was required for the interconnector project CGS. The cables from all the wind turbines in the wind farm are connected in the transformer station at the transformer platforms. The voltage is transformed from 33 to 150 or 220 kilovolts (kV) for efficient further transport.

How far apart are Kriegers Flak & Baltic 2 wind farms?
The Kriegers Flak (Denmark) and Baltic 2 (Germany) wind farms are less than 30 kilometresapart. The interconnector was established by connecting both wind farms by means of two submarine cables. The frequencies of the Danish and German transmission systems use a slightly different phase. That is why they need to be matched at the interface.

Kriegers Flak CGS connects the Danish region of Zealand with the German state of Mecklenburg-Western Pomerania via the 605 MW Kriegers Flak and 288 MW Baltic 2 offshore wind farms. It is the world"s first offshore ...

The so-called Kriegers Flak Combined Grid Solution (CGS) connects the Danish region of Zealand with the German state of Mecklenburg-Western Pomerania. The transfer capacity is 400 megawatts (MW). Construction was rolled out end of 2016/beginning of 2017.

The Kriegers Flak combined grid solution (KF CGS) will interconnect the eastern synchronous area of Denmark and Germany by extending the existing high-voltage alternating current (HVAC) offshore wind farm infrastructure in the Baltic Sea.

The system is used as a "hybrid system" to transport wind power from the four offshore wind farms (Baltic 1 & 2, Kriegers Flak A and B) to the land and to promote energy trade between Germany and Denmark. At the ...

Abstract: The Krieger Flak Combined Grid Solution (KF CGS) will be in commercial operation from early 2019. Major novelty of the project is the combination of the existing and scheduled offshore wind power grid-connection systems with an interconnector between the two countries, Germany and Denmark.

The "Combined Grid Solution" (CGS) is a hybrid system that interconnects the grid of north-eastern Germany with the Danish island of Zealand utilising the grid connection infrastructure of the German offshore wind

farms Baltic 1 and 2 and the Danish offshore windfarm Kriegers Flak.

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The Kriegers Flak Combined Grid Solution (CGS) demonstrates a significant step forward in the high-voltage direct current HVDC Light ® technology. This groundbreaking hybrid interconnection has now been in commercial operation for a year smoothly exchanging renewable energy between Denmark and Germany.

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Kriegers Flak CGS connects the Danish region of Zealand with the German state of Mecklenburg-Western Pomerania via the 605 MW Kriegers Flak and 288 MW Baltic 2 offshore wind farms. It is the world"s first offshore interconnector using the national grid connections of offshore wind farms to connect the power grids of the two countries.

The system is used as a "hybrid system" to transport wind power from the four offshore wind farms (Baltic 1 & 2, Kriegers Flak A and B) to the land and to promote energy trade between Germany and Denmark. At the heart of the connection of these two energy grids through the Baltic Sea there is a Master Controller for Interconnected Operations (MIO).

European support The "Kriegers Flak - Combined Grid Solution" holds the status of a "project of common interest" (PCI), given by the European Commission. PCIs are priority projects with regards to bridging gaps in the infrastructure of the European power system and facilitating the development of a common European energy market.

Web: https://gmchrzaszcz.pl