

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 kilometres apart. 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.

The Kriegers Flak - Combined Grid Solution is the world's first hybrid interconnector/OWP system. It combines: o the radial grid connections of the German OWPs Baltic 1 & 2 and the future Danish OWP Kriegers

50Hertz and Energinet plan to establish the Kriegers Flak - Combined Grid Solution (CGS) to connect the national grid to offshore wind farms in the Baltic Sea. The construction of the CGS, with the capacity of 400MW, began in 2017, and the operations is planned to start in Q1 2019.

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.

Kriegers Flak Combined Grid Solution KF CGS 20 Acknowledgements The Kriegers Flak Combined Grid Solution is granted with financial support from the European Energy Programme for Recovery (EEPR) of the European Union Status o OSS extension module KFE was commissioned in 2018 o Sea cables were commissioned in 2018 o BtB converter station was

Abstract: 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 heart of the connection of these two energy grids through the Baltic Sea there is a Master Controller for Interconnected Operations (MIO).

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 ...

Enabled by Hitachi Energy's HVDC solution with its digital master controller system, Kriegers Flak integrates power from three offshore wind farms in the Baltic Sea. In the future, a total of four offshore wind farms - two each from the German and the Danish side - ...

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Hitachi Energy technical solution demonstrates how new HVDC hybrid solutions can optimize power grids and make new and larger applications of offshore wind possible to further support ...

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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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Hitachi Energy technical solution demonstrates how new HVDC hybrid solutions can optimize power grids and make new and larger applications of offshore wind possible to further support EU targets for achieving



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climate neutrality by 2050.

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.

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