

Project of common interest:

4.1

COUNTRIES INVOLVED

Denmark (DK) Germany (DE)

PROJECT PROMOTERS

50Hertz Transmission (DE) www.50hertz.com Energinet.dk (DK) www.energinet.dk

BASIC TECHNICAL DATA

Capacity: 400 MW

Power of the compressor station: 150

kV

Voltage: 150 kV Length: 2 x 25 km

LOCATION

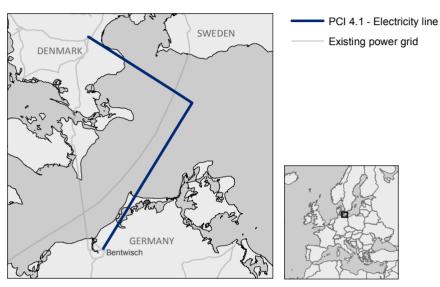
Ishøj / Bjæverskov Tolstrup Gaarde (DK) to Bentwisch (DE)

COMMISSIONING DATE

2018

Electricity interconnection

Baltic Energy Market Interconnection Plan in electricity



Source: PLATTS, GISCO, European Commission

Definition

4.1 - Denmark — Germany interconnection between Ishøj / Bjæverskov Tolstrup Gaarde (DK) and Bentwisch (DE) via offshore windparks Kriegers Flak (DK) and Baltic 1 and 2 (DE) [currently known as "Kriegers Flak Combined Grid Solution"]*

Type of technology employed

The Kriegers Flak Combined Grid Solution is a new 400 MW offshore interconnection between Bentwisch (DE) and Ishøj/ Bjæverskov (DK) via the offshore wind farms Kriegers Flak (DK), Baltic 1 and 2 (DE). As Eastern Denmark and Germany are two different synchronous areas, the frequency transformation is necessary. This will be done by two voltage source converters (VSC) as back to back solution (B2B) that convert the alternating current (AC) from the Nordic synchronous area into direct current (DC) and directly

back to AC, now adapted to the Continental European synchronous area. The project envisages three main components: 400MW HVDC VSC B2B onshore converter station, offshore substation extensions, approximately 2x25 km sea cables with a voltage of 150 kV, as well as the extention of onshore substations in Bentwisch and Ishøj/ Bjæverskov, C-T ype-Filter (MSCDN) and shunt reactor.

Implementation status

Under construction