

# Klxbüll-Endrup Interconnection

The essential power connection between Germany and Denmark

Information Leaflet for Public Participation under the TEN-E regulation



### **Manual of procedures for TEN-E projects**

#### **Denmark**

<https://ens.dk/ansvarsomraader/forsyning/beredskab/pci-projekter-af-faelles-europaeisk-interesse>

#### **Germany**

[www.bundesnetzagentur.de/cln\\_1421/DE/Allgemeines/DieBundesnetzagentur/Internationales/Energie/PCI/pci-node.html](http://www.bundesnetzagentur.de/cln_1421/DE/Allgemeines/DieBundesnetzagentur/Internationales/Energie/PCI/pci-node.html)

#### **Europe**

Transparenzplattform der Europäischen Kommission:  
<http://ec.europa.eu/energy/en/topics/infrastructure/projects-common-interest>

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# The Klixbüll-Endrup Interconnector project

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TenneT Germany and Energinet are developing a proposal for a new high voltage overheadline connection between Germany and Denmark, connecting to the existing Danish and German electricity transmission systems.

The Klixbüll-Endrup Interconnector project will enable more effective use of renewable energy, access to sustainable electricity generation and improved security of electricity supplies. Thus it will have socioeconomic benefits for both Denmark and Germany and the wider European community

The project is in line with the European Commission's aim for an integrated energy market to ensure value for money for consumers and provides the opportunity to transport renewable energy to centres of consumption in both countries. The Project has therefore been included on the European Union List of Projects of Common Interest (PCI).

As a PCI, Regulation (EU) No 347/2013 on guidelines for trans-European energy infrastructure, referred to as the 'TEN-E Regulation' applies to the Project, and sits alongside other relevant legislation in each country.

The TEN-E Regulation has been developed to ensure the timely development and interoperability of energy networks in Europe and it sets out guidelines for streamlining the permitting processes for major energy infrastructure projects that contribute to European energy networks.

# Project partners

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**TenneT** is a leading European electricity transmission system operator (TSO) with activities in the Netherlands and in Germany. TenneT strives to ensure a reliable and uninterrupted supply of electricity in a high-voltage grid for some 41 million people. With more than 3,000 employees TenneT promotes the integration of the North-Western European electricity market and facilitates the energy transition in Germany and Europe. The company is one of the largest European investors in national and cross-border energy infrastructure on land and at sea.

**Energinet** is an independent public enterprise owned by the Danish Ministry of Energy, Utilities and Climate. The enterprise owns and operates Denmark's main electricity and natural gas networks, helping supply people, businesses and institutions with reliable energy now, tomorrow and in the years to come. Through international and market based solutions, working together across the energy sector's value chain, Energinet strives to achieve balance in a sustainable energy system with increasing amounts of renewable energy.

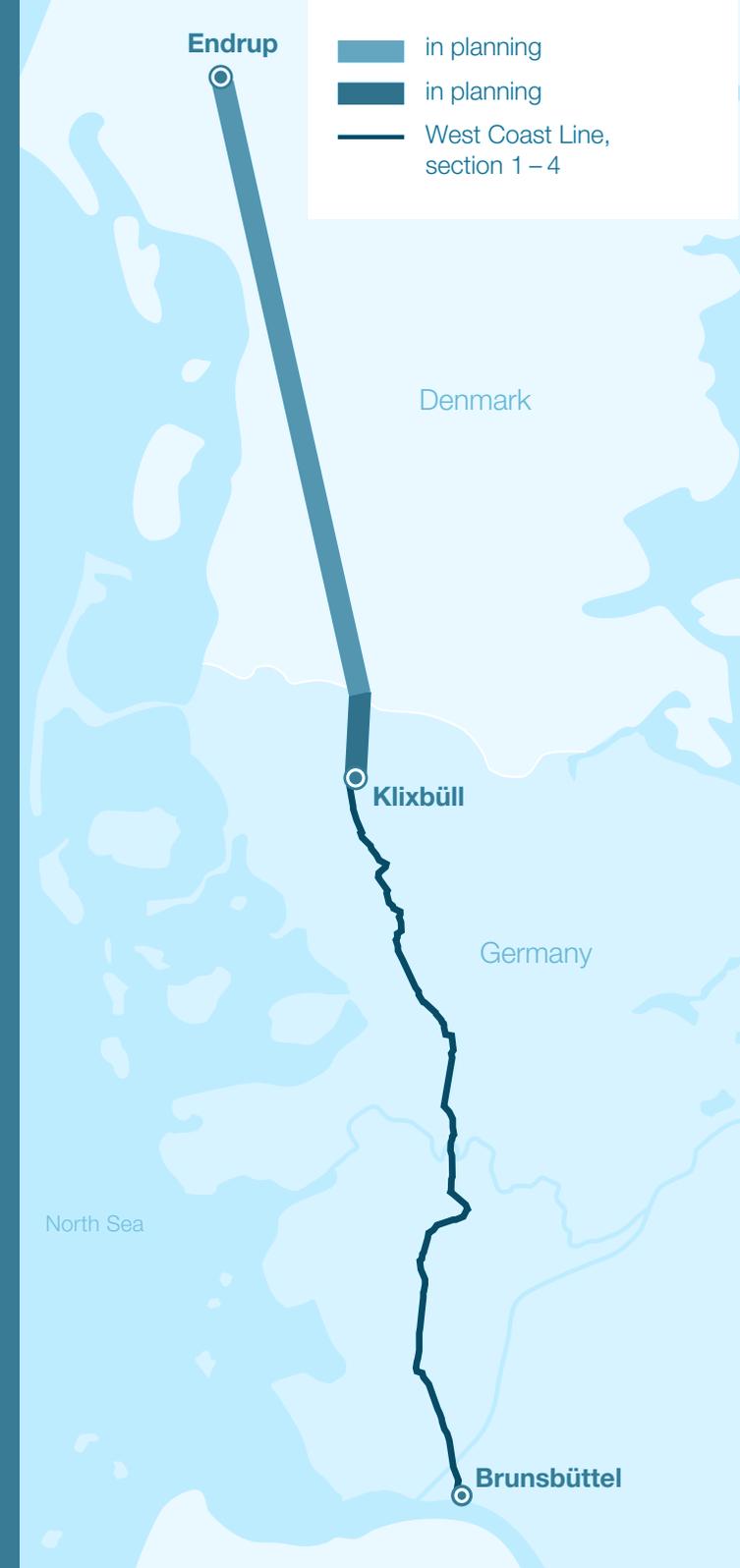
# About the project

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The Klixbüll- Endrup Interconnector project is a proposed high voltage overhead line that will connect the German and the Danish electricity transmission systems. The project is on the European Commission list of Project of Common Interest (PCI) as an important project to assist the European Union to support its energy and climate policy.

The project consists of a German part from the substation Klixbüll near Niebüll to the Danish border and a Danish part from the German border to the substation Endrup near Esbjerg.

The German part of the Klixbüll- Endrup Interconnector project is also the fifth and last section of the West Coast Transmission Line from Brunsbüttel to the Danish border.



## Technical elements in Germany

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The works in Germany will involve erecting a 380 kV AC overhead line with two circuits. The overhead line will have an approximately length of approximately 18 km. Starting point will be a purposefully constructed 380 kV substation in the area of Klixbüll in Schleswig-Holstein up to the German-Danish border near Tønder.

## Technical elements in Denmark

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The works in Denmark will involve erecting a 400 kV AC overhead line with two systems. The overhead line will have an approximately length of 75 km. It will start at the existing 400 kV substation Endrup near Esbjerg to the German-Danish border near Tønder.

# Potential impacts

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Various studies will be undertaken to inform the development of the alternatives for the corridors. Environmental considerations and consultation will also inform this process.

As part of the permit applications the project will consider potential impacts, through environmental assessments and permitting processes for all relevant physical, biological and human receptors, and will seek to mitigate any potential adverse effects wherever practicable which the proposals may have on the surroundings.

Potential cumulative impacts including cross-boundary impacts will be described and assessed for each set of permit applications.

The potential impacts will be assessed for construction, operation and where required by legislation, for decommissioning of the various elements of the project.



# Mitigation Measures

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The project partners will consider environmental constraints in any options identified for the corridor routing with the aim of avoiding designated areas where reasonably practicable. The options will be consulted with relevant authorities, statutory and nonstatutory consultees and communities before identifying preferences for the routes.

In instances where the project interacts with environmental designations, through the Environmental Impact Assessment (EIA) appropriate and proportionate mitigation measures will be identified and proposed as part of its permit applications.

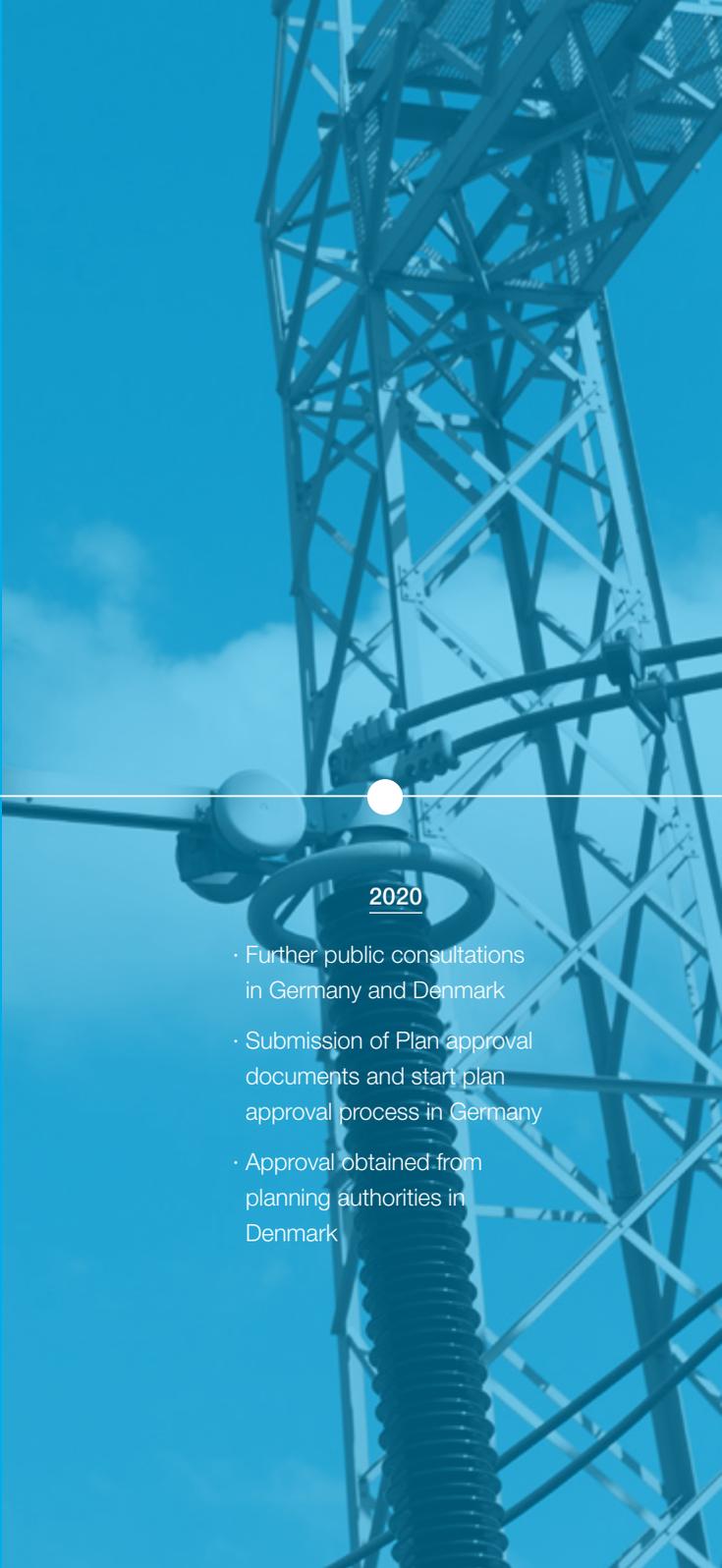
## Factors to assess

Impacts which could be treated throughout the scoping phase and in the environmental assessment include:

- Health and Safety
- Impacts on ecology
- Noise and vibration
- Archeological items
- Visual impact
- Electromagnetic Fields (EMF)
- Spatial planning and use of rec-reational areas

# Project Timeline

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Specific project milestones, permitting time schedule and construction and operation for both parties



2021

- Right of way obtained in Denmark
- Approval obtained in Germany

2022

- Construction of overhead lines in Denmark starts
- Construction of overhead line in Germany starts

2023

- End of line construction in Germany and Denmark
- Line commissioning

# Permitting Process and Public Participation

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The Project Partners will comply with all appropriate national legislation and legislative framework for PCI projects to obtain the required permits in both Denmark and Germany.

For the Danish and German permitting processes the Environmental Impact Assessment (EIA) will be followed. The legislative framework for PCI demands an equal level of stakeholder consultation and public participation.

The EU-Guidelines for the European energy infrastructure (Trans-European Networks for Energie = TEN-E Regulations) determine the permit granting process is split into two main phases – the pre-application and the statutory permit granting procedures.

Within the pre-application procedure, the project partners (TenneT and Energinet) have to carry out at least one public event in each member state and the consultation shall take place within no more than two months from the commencement date of the first public consultation. In April 2018, the project partners will be arranging these first consultation events in both countries in accordance with the Concept for Public Participation which is part of the requirements under the EU TEN-E Regulations.



Any input/feedback from the consultation phase will be taken into consideration in developing the scoping document as well as the project proposal and applications.

In accordance with the TEN-E Regulations, a consultation report will document how any input from any public and stakeholder engagement has affected the decisions in developing the project. The permit process in each jurisdiction will ensure that any potential environmental impacts and input from the public consultations are taken into account in the decision making processes which are likely to determine the conditions for consent. No form of construction works will commence before Comprehensive Decisions have been confirmed.

[Read more  
about the Project](#)

Recognising the need for multi lingual project information, the project partners have established dedicated websites in Danish and German.

[www.klixbuell-endrup.eu](http://www.klixbuell-endrup.eu)





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