



European
Commission

Project of common
interest:

1.19

PCI fiche

One or more hubs in the North Sea with interconnectors to bordering North Sea countries (Denmark, Germany, Netherlands) [currently known as “North Sea Wind Power Hub”]

Northern Seas offshore grid

CATEGORY
Electricity

CLUSTER
n/a: n/a

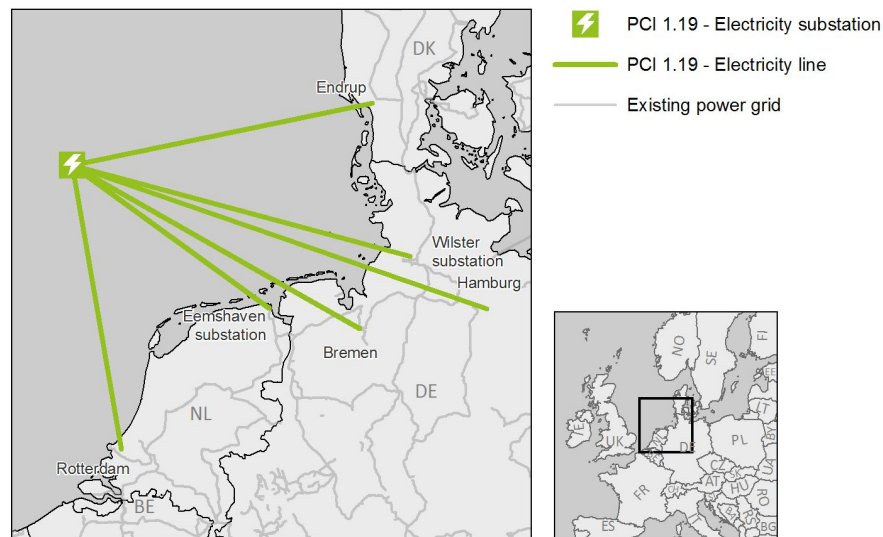
COUNTRIES CONCERNED
Netherlands(NL)
Denmark(DK)
Germany(DE)

PROMOTERS
Gasunie (NL)
TenneT (NL)
TenneT (DE)
Energinet (DK)

PCI WEBSITE(S)
<https://northseawindpowerhub.eu/>

LOCATION
Denmark, Germany,
Netherlands

COMMISSIONING DATE
2032



Source: PLATTS, GISCO, European Commission

Technical description

A large scale European electricity system for offshore wind is proposed to be developed in the North Sea. It includes a construction of one or more hubs at a suitable location in the North Sea with interconnectors to bordering North Sea countries. The whole system may function as a hub for transport of wind energy, an interconnection hub to the connected countries, a working hub for offshore wind developers and a location for possible power-to-gas solutions. This project is a first building block in the hub-and-spoke concept (NSWPH) connecting up to 12 GW future offshore wind parks to the systems of Denmark, the Netherlands and Germany after 2035. An integral part of the NSWPH is to assess the perspectives of coupling large-scale wind power production with the gas system through power-to-gas (PtG) technology. The total length is 2258 km.

CEF funding

1.19-0001-NLDE-S-M-20: Awarded CEF co-funding: 13,684,500 EUR

https://ec.europa.eu/assets/cinea/project_fiches/cef/cef_energy/1.19-0001-NLDE-S-M-20.pdf

LAST UPDATE
March 2023

Energy

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