



The Fehmarnbelt Fixed Link will create a coast-to-coast connection providing a four-lane motorway and a double-track railway line on a 19km alignment between Denmark and Germany.

Femern A/S is tasked with designing and planning this fixed link. Femern A/S is a subsidiary of the Danish, state-owned Sund & Bælt Holding A/S, which has experience from the construction of the fixed links across the Storebælt and the Øresund.

An efficient transport corridor across the Fehmarnbelt has been a vision for decades and a fixed link will offer substantial benefits for Europe's economic development and communication links.

Fehmarnbelt will be the final link between Scandinavia and continental Europe and will complement existing fixed links over the Great Belt and the Øresund. The link is a priority project within the EU's Trans-European Transport Network.

The Danish client Femern A/S is developing parallel designs for a bridge and immersed tube tunnel. The decision whether to construct a bridge or a tunnel is to be made in 2011 with construction planned to begin in 2014 with a completion date of 2020.

Flint & Neill has assisted the COWI-Obermeyer JV in investigating and developing solutions for the bridge design.

The solution proposed includes a multi-span cable-stayed bridge with two 724 m navigational spans. The double-deck all-steel truss carries vehicle traffic on its upper deck and rail traffic on the lower. The design has been developed to maximise off-site prefabrication thereby minimising construction risk and delivering improved quality and significant cost benefits.

Cost: 4.5 - 5.5 billion Euros (2008).

Client:
Femern A/S

Location:
Between Rødby in Denmark & Puttgarden in Germany

Service Dates:
2009 - 2010

Team:
COWI - Obermeyer JV includes
Flint & Neill and Leonhardt
Ändra Und Partner

Services:
Concept design

