

Offshore Wind Energy

Tyne Clean Energy Park, Port of Tyne, United Kingdom



Application
General Cargo Terminals

Type
SPC Cone Fenders

Date 2024

Reference 0236

A CLOSER LOOK AT THE CASE

Ideally positioned in the northeast of the UK, the Port of Tyne is one of the key ports to serve North Sea offshore developments. Its Clean Energy Park, underwent a **significant upgrade and expansion project in the River Tyne section**, plays an important role in supporting the country's goal of powering every home with offshore wind energy.

ShibataFenderTeam collaborated with Southbay Civil Engineering Ltd to design and supply a customized solution: five double Cone Fender Systems, each consisting of two Cone Fender (SPC 900, G3.1) and a closed box panel (6700 x 1500mm) with UHMW-PE low friction pads. The order scope also included five sets of T Head Bollards (100t).

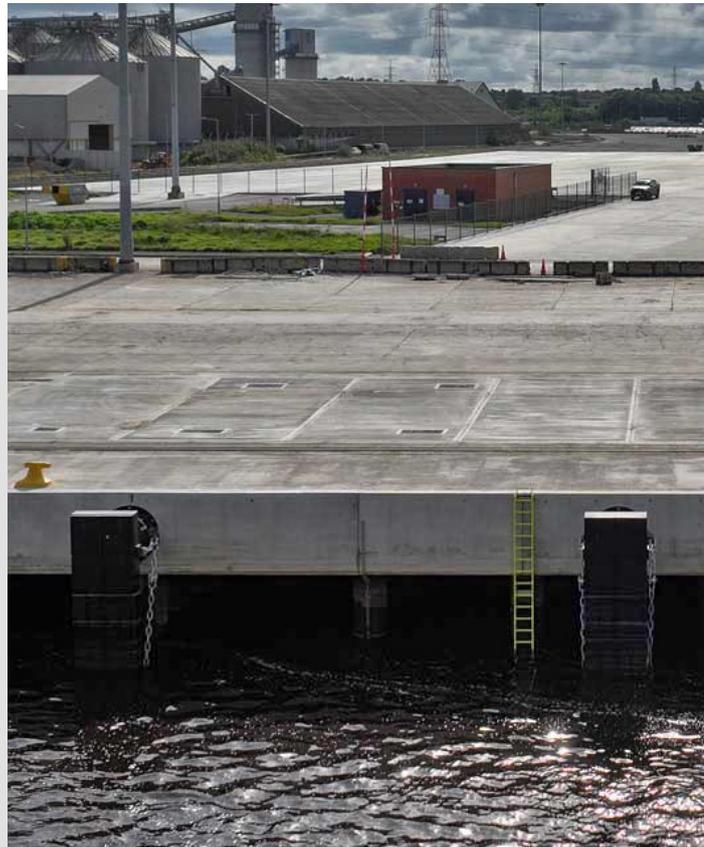
Project Scope

- ▶ 2 Cone Fender Systems (SPC 900, G3.1) with a closed-box panel (6700x1500 mm)
- ▶ 5 T Head Bollards capacity 100t

CHALLENGE AND SOLUTION

The fender systems have been customized to comply not only with the new berthing line but also with the conditions at the location. For this reason, **some fenders are equipped with relatively large steel spacers**. Additionally, given the tidal variations typically experienced along this area of the UK coast, **the steel panels are longer than usual**, and it is also worth noting that the thickness of the UHMW-PE pads is **double the standard**.

The SFT fender solution topped off a project that also encompassed, for example, the removal of redundant structures or the installation of 864 mm diameter bearing piles. All these changes resulted in a significant increase in loading capacity, **from 10t/m² to 20t/m²**.



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We at the ShibataFenderTeam Group recognize **sustainability as a paramount concern**, we advocate for carbon reduction and control initiatives, and **we are proud to have participated in projects that lead us toward a greener future**.

Port of Tyne's clean Energy Park, key hub in UK, plays an important role in the country's goal of powering every home with offshore wind energy. Explore more SFT Case Studies or Contact Your Nearest Office.

