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Now the DFDS ferries in Copenhagen will be receiving shore power

The work to establish a shore power facility at the DFDS ferry terminal in Copenhagen is in full swing. The initiative is a joint collaboration between CMP and DFDS, with the Swedish company Actemium as contractor and COWI as technical advisor. The facility is expected to be operational in late summer 2021 and will make it possible for DFDS' ferries Crown Seaways and Pearl Seaways to significantly reduce the ships' CO2 emissions while in port.

CMP's and DFDS' joint shore power initiative nicely fits in with the ambitions of both companies to continue to make the port activities in Copenhagen

greener. Once the shore power facility has been established, it will become possible for the ferries to turn off the ship's generators and thus reduce the emissions of air pollutants as well as particulates.

“Since 2019 we have been using shore power on our ships in the Port of Oslo and we look forward to also being able to reduce the amount of air pollutants and particulates when the ships are located at DFDS' terminal at the port in Copenhagen. We know from Oslo that such installations have a very positive impact on the environment in and around the port and especially in regards to the residents who live in close vicinity to our terminals,” notes Torben Carlsen, CEO at DFDS.

“Long-term planning, design and tendering are bearing fruit when the shore power facility is put into operation during the late summer. The shore power initiative is of significant importance to us and an important milestone in our efforts to contribute to the UN's global sustainable development goals. To achieve this in close cooperation with DFDS feels really special, and we look forward to the ferries being connected to shore power this summer when they are berthed in Copenhagen,” reports Barbara Scheel Agersnap, CEO at Copenhagen Malmö Port.

Swedish-based turnkey contractor Actemium is setting up an Onshore Power Supply (OPS) facility in Copenhagen. This is a market-leading solution for land-based electrical connections to ships. Actemium has previously established 16 Onshore Power Supply facilities in the Nordic region, including a facility in Oslo that the DFDS ferries use today.

“We at Actemium are honoured to be involved in this important assignment and are delighted with the confidence shown in us. The assignment also includes carrying out excavations and installation work on site, remote monitoring, operation of the facility, and maintenance. A remotely manoeuvred crane for connections to the ferries will also be installed on the quayside in the respective ferry berths. We at Actemium are very proud of how our OPS facilities help our customers and users to contribute to a more sustainable future that is less dependent on fossil fuels,” comments André Olofsson, Project Manager at Actemium OPS.

The shore power installation at the DFDS quays is the first shore power facility in Copenhagen.

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Brief facts

- Two connection points will be established, one on each quay at DFDS' ferry terminal on Dampfærgevej in Copenhagen. The installation will be delivered in a 40-foot container, which will be placed on the quay. It delivers 10 kV with 50 Hz.
- According to COWI's March 2019 report "An Analysis of Alternative Energy Sources for Cruise Ships" (commissioned by the City of Copenhagen), it is estimated that the connection of shore power to DFDS ferries will result in an annual reduction in emissions of approximately 912 tonnes of carbon dioxide, 18 tonnes of NOx and 0.4 tonnes of particulates. Overall, this represents a reduction of 1.6% of vehicle traffic in Copenhagen in terms of NOx.
- In a normal year, DFDS sails the ferries daily round trip between Oslo and Copenhagen, a total of approx. more than 700 sailings, with a total of approx. 800,000 passengers annually.
- Actemium installed the first land connection in the world in the Port of Gothenburg some years ago and has since then supplied shore power facilities in Kristiansand, Oslo, Gothenburg, Trelleborg, Ystad, Karlskrona, Visby, Stockholm and Luleå.
- The facility is certified with IEC/ISO/IEEE 80005.

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