

Case History Sea Installer



Going further with Bondstrand™

In 2011 we worked with A2SEA to help them design and build their offshore wind turbine installation jack-up vessel, Sea Installer. In order to help our client meet their objectives we supplied over 2000 meters of Bondstrand products.

Our Bondstrand corrosion-resistant composite solutions provide end users with versatile alternatives to traditional materials—including glass-reinforced epoxy (GRE) piping, fiber-reinforced polymer (FRP) structures, and composite pressure vessels. With projects ranging from floating, production, storage and offloading (FPSO) and floating liquefied natural gas (FLNG) vessels to submarines, warships, and drillships, we've supplied miles of pipework and composite structures that saved hundreds of tons in weight while eliminating corrosion.

Problem

As new generations of wind turbine installations continue to develop, so do their operating requirements. The goal was to help build a vessel that can operate in the more challenging conditions found farther offshore and in deeper water.

Solution

With 40 years of proven reliability our Bondstrand 2000M piping was used throughout the vessel. Our product offers considerable weight saving properties which allows Sea Installer to move at speed, whilst carrying a large payload. Hitting high transit speeds allows a direct feed from component production facilities, eliminating the inefficiency of trans-shipment at local logistics harbours.

Bondstrand piping is built for the future and offers exceptional anti-corrosive qualities. Its carbon steel equivalent will need to be replaced twice over a 20-year period, whereas our Bondstrand products will last over 40 years. Its proven durability has benefitted over 6000 sea going vessels and ensured Sea Installer was ready for the challenges that lie ahead.

340 meters of the Bondstrand 2432 series was also used for the leg jetting system, where its 32 bar operating pressure was utilized. Retrieving the jack-up legs can be a tricky process due to the high resistance caused by soft soil. With our higher pressure piping the vessel can break up the high suction force and retrieve the legs without issue.

Products used: Bondstrand 2000M & 2432

Bondstrand piping installed on vessel

- Cargo area
- Pump room
- Machinery space
- Leg well

Bondstrand piping applications on vessel

- Ballast water system
- Sea water cooling system
- Leg jetting water system
- Fresh water cooling system

Size range

- 2 to 32 in

Quantity

- +6,560 ft (+2000 m)