



## SeAH Monopile Facility Teesworks, Middlesbrough

### Location

Teesworks, Middlesbrough

### Client

SeAH

### Architect

CWA

### Engineer

WSP

### Tonnage

35,000

**Severfield is providing an impressive 35,000 tonnes of structural steelwork for the giant monopile factory on Teesside for SeAH Wind, a subsidiary of South Korean steel manufacturer SeAH. Upon completion, this will be the largest monopile facility in the world, measuring an impressive 810m x 210m, and creating up to 750 direct jobs and a further 1,500 jobs in the supply chain. This superstructure is one of the largest projects we've worked on to date.**

The 115,000 sq metre production facility will be used to produce monopiles up to 120 metres long, 10 to 15.5 metres in diameter, and weighing over 3,000 tonnes. Monopiles are the foundations designed to support offshore wind turbines. Monopiles are vital parts of offshore wind turbines, anchoring them deep beneath the sea. SeAH will fabricate these monopiles, initially starting as flat plates that undergo rolling and welding to create short tubular sections. These sections are then welded together to form the finished monopile.

The client needed an extremely fast-paced project delivery, requiring a tightly controlled connection design and detailing programme. This required output from all our Group fabrication facilities, showing the strength and scale of our group operations.

To manage the scale of the project, Severfield has deployed 150 people to work on-site to ensure everything runs smoothly and so that we meet the ambitious programme. Our site teams were erecting more than 1,000 tonnes of steelwork per week, with as much preassembly being undertaken at ground level where possible to speed up the construction process.

The site teams also managed to work around the delivery of significant amounts of heavy machinery from Korea, requiring agility to adjust the build sequencing to accommodate these deliveries and maintain the demanding build programme.

This project highlights our ability to deliver projects of this size and complexity with precision and efficiency, despite the tight deadlines and dynamic build environment. As the demand for green energy and infrastructure increases, this project showcases how Severfield can play an important role in delivering similar projects in the future.