

Specialist Press Release

August 1, 2023

Contact:
Martina Krammer
BAUER Aktiengesellschaft
BAUER-Strasse 1
86529 Schrobenhausen, Germany
Phone +49 8252 97-3616
public.relations@bauer.de
www.bauer.de

Teesside and the energy revolution: Bauer Spezialtiefbau executes foundation works for the world's largest monopile manufacturing facility for offshore wind

Teesside, UK – The northeastern region of England has more to offer than its impressive natural landscape of coastline, moors, hills and rivers. It is also home to an interesting mix of industrial heritage and modern development. The urban area of Teesside, named after the Tees River, is located here directly on the North Sea coast. Particularly in the 20th century, it was known as an important location for heavy industry. Despite its recent history, this area is gearing up for the future: A new manufacturing facility for the construction of monopiles for offshore wind is currently being built on a former steelworks site in Teesside. What makes this project special: The future manufacturing facility extends across a 90 acre site and will be the world's first XXXL monopile factory for offshore wind after its completion. As many as 150 monopiles will be produced annually to be transported first to the new South Bank Quay of Teesworks and then on to installation in the North Sea.

Around 7,000 piles in 14 months

SeAH Wind Ltd., with principal contractor K2 Construction Management, commissioned the Joint Venture between BAUER Technologies Ltd., the British subsidiary of BAUER Spezialtiefbau GmbH, and Keller UK to carry out the necessary foundation work. This work included installing roughly 1,500 piles with a diameter of up to 1,180 mm and a depth of around 35 m. In addition, a further 5,500 CFA piles were constructed with diameters of 600, 750 and 900 mm and a drilling depth of 28 m. All in all, this was a tough job for the specialist foundation engineering experts – and they completed it in record time of just 14 months.

No easy task

Big project, many challenges. Both above and below ground, the site team had to tackle a number of challenges: For one thing, strong gusts of wind impacted a great deal of lifting work. Furthermore, the soil conditions turned out to be very difficult in relation to installing CFA piles through slag which required pre-drilling. As a result, extreme caution and precision were required. "But good planning and organization are ultimately the key," explained Dien Nackaerts, Project Manager of Bauer Technologies. He proudly sums it up: "Thanks to a fantastic team and excellent effort, we were able to manage these numerous challenges without problems."

The work began in June 2022 and will be successfully completed in August 2023.

Video:

Would you like to learn more? Then watch the film and see this major project up close at https://youtu.be/N0gN2V_Yq4U

Photos: 2023-07_bauer-piling-work-monopile-manufacturing-facility-teesside-uk...



(1) A strong team at work: Roughly 1,500 bored piles and 5,500 CFA piles form the foundation for the planned monopile manufacturing facility.



(2) Thanks to precision and good planning, the specialist foundation engineering work was successfully concluded in just 14 months.



(3) Site Engineer Vidhya Brahmalingu ensures good planning and organization on the construction site.

All photos: © BAUER Group

About BAUER Spezialtiefbau Group

BAUER Spezialtiefbau GmbH, the original parent company of the BAUER Group, has been a major driving force in the development of specialist foundation engineering. It carries out all of the customary processes of foundation engineering, primarily for excavation pits, foundations, cut-off walls and ground improvements on a worldwide basis. In doing so, BAUER Spezialtiefbau GmbH works closely together with their over 50 subsidiaries and branches across the globe. Regional networks around the world allow for the quick and flexible application of machines, teams and expertise. Bauer Spezialtiefbau offers their customers individual, creative and economical specialist foundation engineering solutions for demanding construction projects, from planning through to execution. More at bst.bauer.de

About Bauer

The BAUER Group is a leading provider of services, equipment and products dealing with ground and groundwater. The Group can rely on a worldwide network on all continents. The Group's operations are divided into three forward-looking segments with high synergy potential: Construction, Equipment and Resources. Bauer profits enormously from the collaboration of its three business segments, enabling the Group to position itself as an innovative, highly specialized provider of products and services for demanding projects in specialist foundation engineering and related markets. Bauer therefore offers suitable solutions to the world's greatest challenges, such as urbanization, the growing infrastructure needs, the environment, as well as water. The BAUER Group was founded in 1790 and is based in Schrobenhausen, Bavaria. In 2022, it employed about 12,000 people and achieved total Group revenues of EUR 1.7 billion worldwide. More information can be found at www.bauer.de. Follow us on [Facebook](#), [LinkedIn](#) and [YouTube](#)!