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Press Release

September 2, 2021

Bilfinger delivers engineering services for Porthos CO₂ storage project

- **Capture of CO₂ from industry and storage in former gas fields beneath the North Sea bed**
- **Bilfinger delivers engineering services for pipelines and compressor station buildings**
- **Bilfinger's engineering expertise decisive factor for orders from a number of companies**

Bilfinger delivers a range of engineering services for the [Porthos project](#) in the port of Rotterdam on behalf of several customers. The project is considered one of the world's largest and most advanced [carbon capture and storage](#) (CCS) initiatives. Bilfinger's services include design and planning work to connect industrial companies to the CO₂ pipelines as well as detailed engineering for buildings at the compressor station.

"In the years ahead, we will see a kind of carbon value chain emerge," says Christina Johansson, Bilfinger's interim CEO and CFO. "That makes our work on the Porthos project strategically important for us. We are positioning ourselves as a partner for CCS projects in the process industry – one that can deliver a range of services along this new value chain from a single source."

Bilfinger's involvement in the Porthos project began two years ago and has steadily expanded since then. Among the first tasks was the execution of a process simulation study in which Bilfinger examined the feasibility of various sections of the planned infrastructure. Currently, the engineers are focusing on the detailed design of buildings for the compressor station. It is in this station that the CO₂ is compressed before being transported to the North Sea. The Belgian [Denys](#) group is selected by Porthos to design and construct the pipeline systems that will transport the CO₂ to the compressor station. On behalf of [Rotterdam Engineering](#), who is commissioned by Denys to deliver the design, Bilfinger assists in providing engineering services. Furthermore, Bilfinger executes multiple pipeline projects for Shell as one of the suppliers of CO₂ to Porthos. [Bilfinger Tebodin](#) will be delivering all these engineering orders. The decisive factor for the orders was the company's comprehensive expertise in both the handling of CO₂ and in engineering pipelines above and below ground.



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The project name “Porthos” stands for “Port of Rotterdam CO₂ Transport Hub and Offshore Storage”. EBN (Energie Beheer Nederland), Gasunie and the Port of Rotterdam Authority are responsible for project organization. The objective of the project, which is receiving €102 million in funding from the European Union, is to compress around 2.5 million metric tons of CO₂ per year in the port of Rotterdam from 2024 and store it in depleted gas fields beneath the North Sea. The CO₂ will be supplied by Air Liquide, Air Products, Exxon Mobil and Shell, which will capture it at their industrial facilities near Rotterdam and feed it into a pipeline to the port of Rotterdam. The CO₂ will then be fed through a compressor station into an offshore pipeline below the seabed and transported to a platform in the North Sea, located about 20 kilometers offshore. From this platform, the CO₂ will be pumped into empty gas fields located in a closed reservoir more than 3 kilometers below the North Sea bed. Work is currently underway to prepare for the implementation of the project, and the final decision and government approval to implement it is planned for 2022.

CCS is one of the most cost-effective ways to achieve targeted climate goals in the short term. The Dutch climate agreement stipulates that half of the industry's targeted CO₂ reduction by 2030 should be achieved through CCS. The other half is to be achieved through greater energy efficiency including waste heat utilization, further electrification, the expansion of renewable energies and the increased use of green hydrogen.

Bilfinger is a leading international industrial services provider. The Group enhances the efficiency of assets, ensures a high level of availability and reduces maintenance costs. The portfolio covers the entire value chain from consulting, engineering, manufacturing, assembly, maintenance and plant expansion to turnarounds and also includes environmental technologies and digital applications.

The company delivers its services in two service lines: Engineering & Maintenance and Technologies. Bilfinger is primarily active in Europe, North America and the Middle East. Process industry customers come from sectors that include chemicals & petrochemicals, energy & utilities, oil & gas, pharma & biopharma, metallurgy and cement. With its ~ 30,000 employees, Bilfinger upholds the highest standards of safety and quality and generated revenue of €3.5 billion in financial year 2020.

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