STORAGE
TERMINALS MAGAZINE

Technip Energies selected by Viridor to perform FEED on the Runcorn energy-from-waste carbon capture project in the United Kingdom

Technip Energies has secured a front-end engineering design contract from Viridor for the carbon capture and storage project at one of the United Kingdom's largest energy-from-waste facilities located in Runcorn, United Kingdom.

The primary objective of the project is to capture approximately 900,000 tonnes of CO2 annually, with half of the amount sourced from biogenic sources, resulting in the removal of 450,000 tonnes of CO2 from the atmosphere each year.

In its role in the FEED study, Technip Energies will provide a comprehensive design using the Canopy by T.EN™ solution powered by Shell CANSOLV CO2 capture technology. The Canopy offering forms part of Capture.Now™, Technip Energies' strategic carbon capture, utilisation, and storage platform of technologies and solutions.

The Runcorn CCS project is poised to become one of the first facilities to receive funding under the UK Government's Track 1 funding for carbon capture projects, positioning it as one of the pioneering carbon capture projects at an Energy-from-Waste facility worldwide. This marks a significant milestone in the waste sector's contribution to carbon reduction efforts.

The plant is set to play a vital role in the regional decarbonisation strategy by supplying a stable long-term baseload CO2 supply to the HyNet industrial carbon capture cluster in North West England.

Christophe Malaurie, SVP decarbonisation solutions at Technip Energies, expressed, "With this award, Technip Energies confirms its growing leadership position as an integrated state-of-the-art CCUS solutions provider." He highlighted the company's commitment to delivering innovative solutions for the net-zero trajectory, leveraging its extensive experience in project design and execution along with Shell's proven CANSOLV® technology. Malaurie emphasised the significance of capturing 900,000 metric tonnes of CO2 annually, describing it as a significant step in the waste sector towards reducing carbon emissions at scale.

James Eyton, head of CCUS at Viridor, added, “We're delighted to have selected Technip Energies to perform the front-end engineering design study for our game-changing carbon capture project in Runcorn." Eyton stressed the importance of finding a partner who shares Viridor's vision for decarbonised waste treatment and possesses the experience and expertise to develop the world’s largest carbon capture project for energy from waste. He highlighted the potential of Shell CANSOLV® CO2 capture technology to achieve over 95 percent CO2 capture rates, crucial for removing over 900,000 tonnes of CO2 annually at the Runcorn site. Eyton expressed excitement about collaborating to unlock the pathway to Net Zero and beyond into negative emissions for their business, the wider industry, and the communities they serve.

For more information visit www.ten.com