

ESSAR STANLOW SELECTS BELCO[®] TECHNOLOGY FOR CARBON CAPTURE FEED GAS CONDITIONING

Implementing the BELCO[®] system will help revolutionize carbon emissions reduction at the refinery

ST. LOUIS, USA, January II, 2024 — Essar Oil UK Limited (Essar) has selected Belco Technologies Corporation (BELCO), a subsidiary of Elessent Clean Technologies (Elessent), to provide a gas cleaning system as part of the EET Industrial Carbon Capture Plant at the Stanlow refinery. This partnership marks a significant milestone in Essar's commitment to achieving substantial reductions in carbon emissions from refinery operations.

Essar has set ambitious targets to reduce carbon emissions by 95% by 2030. This commitment reflects Essar's dedication to sustainability and its proactive approach to combating climate change.

"Essar has an overall ambition to become the UK's first low-carbon refinery, and including BELCO as part of our project team just makes sense. The BELCO[®] scrubbing system cleans and conditions challenging flue gas streams ahead of carbon capture units (CCUs) and it will be an integral part of our approach," Marcos Matijasevich, Head of Low Carbon Transition, Essar Oil (UK).

The implementation of BELCO's state-of-the-art gas cleaning system into the Stanlow refinery not only reduces plot space requirements but also seamlessly integrates critical technologies for the abatement of sulfur oxides (SO_x) and particulate matter.

The flue gas conditioning process is tailored to meet the stringent requirements of the carbon capture provider.

"We are honored to be part of Essar's project which is leading the energy transition in the UK. It is extremely exciting and very fulfilling for our team to assist in developing one of the world's first low-carbon refineries, ultimately setting a global standard for lower-emitting refineries. I would like to congratulate Essar on their progress in continuing the transformation of Stanlow into a future-proof site," Eli Ben-Shoshan, CEO, Elessent.

Essar and Elessent are proud to be at the forefront of the transition towards a more sustainable and ecoconscious future. This collaboration represents a significant step towards meeting ambitious carbon reduction targets, underscoring Essar's unwavering commitment to environmental stewardship.

BELCO[®] technologies covers a complete range of gas cleaning technologies for industrial applications including the BELCO[®] wet scrubber, SHELL third stage separator (TSS), and NO_x reduction technologies. These technologies reliably control particulate, SO_x and NO_x emissions to the most stringent regulatory requirements. BELCO[®] wet scrubbing technology is the global standard for limiting flue gas emissions from



oil refinery fluid catalytic cracking units (FCCUs), fluid cokers, fired heaters, and boilers using a unique, single up flow tower with robust, non-plugging features. The BELCO[®] wet scrubbing technology is the world leading FCCU flue gas emissions control technology with more than 150 licensed units worldwide. It is also the top choice for pre-cleaning and cooling hot dirty flue gas streams ahead of carbon capture units (CCUs) for CO₂ reduction. The SHELL TSS technology provides protection from particulates for FCCU turbo expanders and can meet regulatory particulate emission requirements. Used across multiple industries, the NO_x reduction technology uses a simple ozone oxidization process that converts NO_x to water soluble compounds that are easily removed with wet scrubbing. Learn more at BELCO.ElessentCT.com.



About Elessent Clean Technologies

Elessent Clean Technologies is a global leader in process technologies to drive sustainability and carbon neutrality in the metal, fertilizer, chemical and oil refining industries with an unwavering commitment to customer support. We provide extensive global expertise across our portfolio of offerings in key applications – MECS[®] sulfuric acid production, STRATCO[®] alkylation, BELCO[®] wet scrubbing and IsoTherming[®] hydroprocessing. Offering critical process equipment, products, technology and services, we enable an array of industrial markets, including phosphate fertilizer, non-ferrous metals, oil refining, petrochemicals and chemicals, to minimize their environmental impact and optimize productivity. We are dedicated to helping our customers produce high-quality products used in everyday life in the safest, most environmentally-sound way possible, with a vision to make the world a better place by creating clean alternatives to traditional industrial processes. Learn more at <u>www.ElessentCT.com</u>.

Contacts

Elessent Clean Technologies Mary Reiss Tel: +1-314-464-4375 <u>Mary.Reiss@ElessentCT.com</u>

Global Business Leader – New Capacity STRATCO[®], IsoTherming[®] & BELCO[®] Technologies

Samantha Presley Tel: +I-9I3-827-6952 <u>Samantha.Presley@ElessentCT.com</u>

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