

August 31, 2023

Sulzer pump technology enabling next generation biofuel production

Sulzer pump technology has been selected by Raízen, Brazil's largest producer of ethanol from biomass feedstock, as a supplier for their new second-generation ethanol (E2G) processing facilities. Sulzer is supplying a range of special metallurgy, process and utility pumps to process raw materials in support of renewable biofuel production for three new facilities. Made with sugarcane waste from Raízen's conventional bioethanol production, E2G production has potential to increase efficiency by up to 50% while reducing emissions.

As the world's most widely used biofuel, bioethanol is commonly mixed with fossil fuel to reduce the carbon footprint of the transport sector – and demand for it is increasing steadily. E2G represents significant efficiency gains, including a renewable biofuel that emits 97% less greenhouse gas than gasoline when burned. Raízen will produce E2G using the sugarcane waste from its conventional bioethanol plants, which is known as bagasse. Given the fibrous nature of bagasse, pumps, pipes and valves supporting E2G production are particularly susceptible to blockage, corrosion and early failure. With vast experience in demanding industry sectors such as pulp and paper and metals and mining, Sulzer's robust products and technical expertise, coupled with its local parts and maintenance offering, were decisive to its winning the tender.

Sulzer's Division President Flow Equipment Jan Lüder said: "We are delighted to see our expertise and technology being selected for innovative solutions that reduce emissions and waste – in this case, using crop residues that are otherwise of no value, to reduce reliance on fossil fuels while safeguarding food crops."

Henrique Nakamura, Raízen's Director of Procurement, added: "We are accelerating our growth reach with our very unique and sustainable products, for which we rely on key strategic partners to deliver our new E2G plants on time and on cost."

Raízen recently presented its *2023 Paceiro Raiz Award* to Sulzer for regularly exceeding expectations in product quality and service delivery. With over 6,000 suppliers, award criteria include greenhouse gas reduction actions, commitment to Science Based Targets initiative (SBTi), Environmental, Social, and Governance (ESG) and diversity initiatives. The company plans to build a total of 20 new second-generation ethanol (E2G) processing facilities by 2030.

Sulzer is a global leader in fluid engineering and chemical processing applications. We specialize in energy-efficient pumping, agitation, mixing, separation, purification, crystallization and polymerization technologies for fluids of all types. Our solutions enable carbon emission reductions, development of polymers from biological sources, recycling of plastic waste and textiles, and efficient power storage. Our customers benefit from our commitment to innovation, performance and quality through our responsive network of 160 world-class manufacturing facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834. In 2022, our 12'900 employees delivered revenues of CHF 3.2 billion. Our shares are traded on the SIX Swiss Exchange (SIX: SUN). www.sulzer.com

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