

Press release

Berlin, 26th January 2023

aireg gains Chemieanlagenbau Chemnitz GmbH (CAC) as a new member

Chemnitz and Berlin, 26 January 2023 - With Chemieanlagenbau Chemnitz GmbH (CAC), an international established company for plant construction and process engineering joins the Aviation Initiative for Renewable Energy in Germany (aireg).

Having branches in several countries worldwide, CAC is an experienced contact for comprehensive engineering services. CAC's business activities include the technology fields of chlor-alkali, power-to-X, hydrocarbons and chemical applications.

One of the new sustainable technologies developed by CAC is the production of synthetic aviation fuel (SAF) from electricity, water and CO₂. This method of manufacture is unique in that it is a completely new technology based on methanol worldwide. The kerosene is produced completely without fossil fuels and in a CO₂-neutral manner, because the needed electricity is derived from renewable energies. The required CO₂ is acquired from the ambient air or separated directly from industrial exhaust gases. The generated synthetic aviation fuel can completely replace standard kerosene in the future.

According to CAC, sustainable aviation fuels play a key role for aviation to enter a low-carbon future and for reaching the goal of "Net Zero" by 2050. The aim is to effectively reduce the dependence from fossil aviation fuels by the increased use of SAF.

Jörg Engelmann, chairman of CAC: "We look forward to active participation in the aireg working groups. With the current MtJ technology development, we foresee our already more than a decade of successful research and development work in the field of synthetic fuels. MtJ technology will make an essential contribution to the decarbonization of aviation and will also provide fuel such as e-gasoline and e-diesel for road transport as high-quality by-products and in compliance with the respective codes and standards."

Siegfried Knecht, chairman of the executive board of aireg e.V., says about joining: "We are very delighted to welcome our new member Chemieanlagenbau Chemnitz. The CAC technology for the production of a synthetically produced aviation fuel via the methanol route (Methanol-to-Jet (MtJ)) represents another important contribution to effectively reduce emissions in aviation. Projections indicate that SAF produced via this technology route is expected to be approved for aviation use in 2024."

About Chemieanlagenbau Chemnitz GmbH (CAC): Reliable, experienced and approachable, CAC is an internationally leading plant engineering company in the field of process and chemical engineering. In the business fields of Chlor Alkali, (Green) Power to X, Hydrocarbon and chemical solutions CAC offers the entire range of services of an engineering and plant construction company. This begins

with the development of a concept, continues through the planning stage and turnkey construction to the point of commissioning of complex plant and plant units – in close co-operation with the customer at all times. With around 400 employees, 270 at the headquarters in Chemnitz, CAC has constructed over 500 industrial plants worldwide in the course of over 55 years. More information about Chemieanlagenbau Chemnitz GmbH can be found at: www.cac-chem.de.

HUGO PETERSEN GmbH is the world's largest technology provider for sulphuric and hydraulic acid production as well as gas cleaning processes, it has been part of the CAC Group of Companies since 2005. In 2006 the engineering company BiProTech Sp. z.o. o. was added as a second subsidiary.

About aireg e.V.:

aireg - Aviation Initiative for Renewable Energy in Germany e.V. was founded in 2011 as an association of companies and organisations from industry, research and science. As a non-profit initiative, aireg is committed to the availability and use of renewable energies in aviation in order to achieve the ambitious CO₂ reduction targets of the aviation industry. The members come from all areas of the value chain of renewable energies for aviation: This ranges from research at universities and large research institutions, plant manufacturers and operators, biorefineries, the petroleum industry, engine and aircraft manufacturers, governmental organisations, non-governmental organisations and airports to airlines. The industrial members internationally cover a broad international spectrum, from start-ups to large corporations.

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