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hte succeeds in ETH's tender to supply a reactor system for electrocatalysis

HEIDELBERG, Germany [May 7, 2024] hte – the high throughput experimentation company was awarded a contract by the technical university ETH Zurich to provide a high throughput test system designed for CO₂ electroreduction. In developing this technology, hte drew on its extensive knowledge and deep technological expertise in high throughput technologies to apply them to this new application. The unit is a testament to hte's commitment to addressing the new challenges posed by the energy transition with high performance, innovative technology solutions.

Global awareness of the urgency and importance of mitigating the detrimental effects of climate change coupled with increasing global energy demand has led to the development of forefront clean technologies for energy generation and conversion as well as for the valorization of CO₂ from various industrial sectors. There is no doubt that electrocatalysis could make a major contribution to each of these endeavors.

This is reflected in the emphasis hte has put on developing technologies such as this fully integrated multiple electrochemical cell unit for CO₂ electroreduction. For this purpose, hte uses a modular design approach to customize its proprietary technologies to the needs of its customers. Our proven expertise in the design and construction of reactor systems combined with fast, efficient online analytics and a fully integrated software solution benefit our customers greatly.

“After a thorough examination of the various bids, hte's solution emerged as the right choice due to its added value. The combination of an adaptable electrochemical cell, seamless software integration, and the sampling of dissolved gaseous products highlights hte's

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innovation and technical prowess, notably incorporating our idea for a parallel testing unit for CO₂ electroreduction. This solution aligns with national initiatives aimed at advancing electrocatalytic technologies for sustainable chemicals production, offering unparalleled capabilities with the potential to set new standards in the field”, **commented by Prof. Javier Pérez-Ramírez, ETH Zurich.**

Wolfram Stichert, CEO at hte, comments, “for many years we at hte have been committed to a more sustainable world by developing forefront technological solutions that embrace energy transition. This commitment is reflected in the provision of a high throughput unit to ETH in the emerging yet promising field of electrocatalysis, with its potential to generate clean and sustainable energy.”

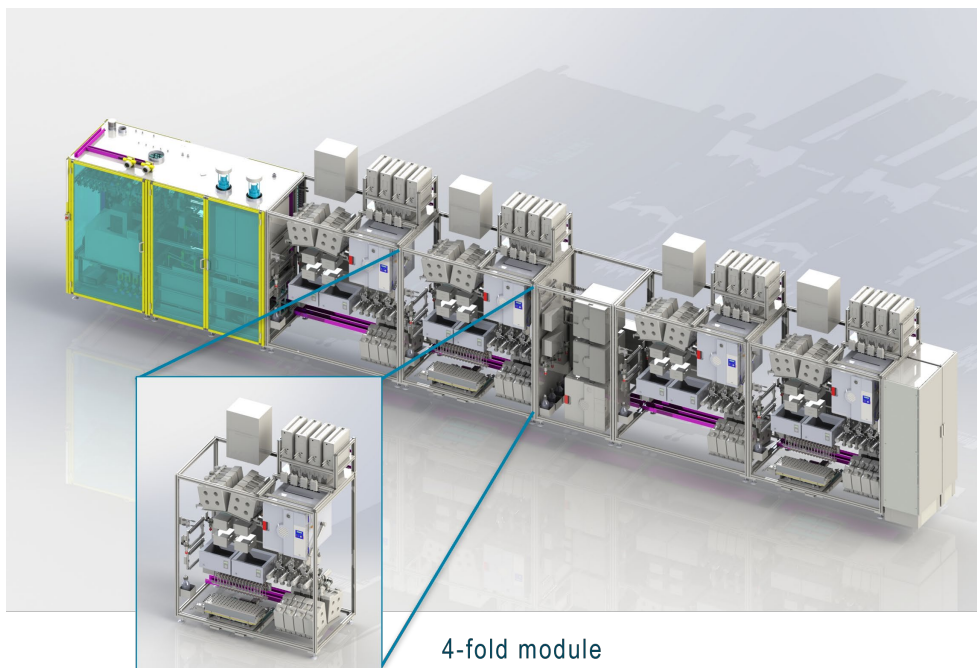


Figure 1: 3D rendering of electrocatalysis reactor system



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About hte

At hte – the high throughput experimentation company, we make R&D in the area of catalysis faster and more productive. We enable cost-effective innovations and reduced time to market for new products, thereby allowing our customers in the energy & refining, chemical & petrochemical, and environmental industries to keep ahead of the competition.

Our technology and services comprise:

- **R&D Solutions:** highly efficient contract research programs at hte's state-of-the-art laboratories in Heidelberg, Germany.
- **Technology & Digitalization:** integrated hardware and software solutions, enabling our customers to establish highly efficient R&D workflows in their own laboratories.

Our customers benefit from broad technical and scientific expertise, exceptional customer orientation, complete end-to-end solutions, and outstanding data quality. Our close ties with BASF guarantee long-term orientation and stability.

For more information, visit our website www.hte-company.com.

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