

## CASE STUDY

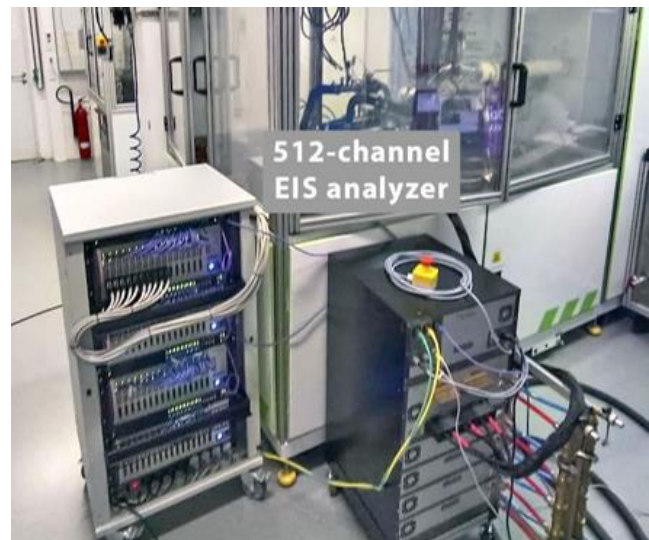
# TU CHEMNITZ can measure EIS in up to 512 cells simultaneously with new MegaEIS System

Chemnitz University of Technology needed to innovate a test station EIS that was able to measure EIS in only one cell at a time and decided on a MegaEIS system equipped to measure 512 cells simultaneously.

Germany and the world are facing enormous challenges in the transition from fossil to sustainable energy sources such as green hydrogen. The Technical University of Chemnitz is one of the leaders in the field of Hydrogen research that contributes to this change. Its goal is to create technology that can make the production of green hydrogen much simpler and cheaper. Its Hydrogen Innovation Center builds and improves a complete system for testing hydrogen fuel cells under real conditions. The test platform will also benefit students and researchers, but it is also an excellent opportunity for the efficient transfer of research results to industry and thus directly to application.

„We have been successfully cooperating with Kolibrík for several years. We have their trusted product, and this solution greatly improved our measurement capabilities,” comments Dr. Carmen Meuser, Professorship of Advanced Powertrains at Chemnitz University of Technology on system deployment.

„Creating a network of quality partners and choosing the best solutions helps us to make Chemnitz a central competence location in Germany,” says Prof. Dr. Thomas von Unwerth, Professorship of Advanced Powertrains at Chemnitz University of Technology.



MegaEIS is a Multi-Channel EIS Analyzer for Hydrogen Fuel Cell and Electrolyzer Stacks. Designed for Hydrogen with High Currents and Peak Performance. Equipment deployed at the University of Chemnitz can handle voltage up to 600 V and currents up to 650 A (16 kW) and measure 512 channels simultaneously up to 100 kHz. The latest versions of MegaEIS can handle voltage up to 1000 V and currents up to 2000 A and measure 1024 channels simultaneously up to 100 kHz.



TECHNISCHE UNIVERSITÄT  
CHEMNITZ

Chemnitz University of Technology is a cosmopolitan university with strong regional, national, and international networks. It is home to about 2,300 academic and administrative employees as well as more than 9,600 students from about 90 countries.

## About Kolibrík

Kolibrík.net offers a complete range of electronic solutions and testing equipment for the hydrogen industry, specializing in H<sub>2</sub> technology design, optimization, high-power fuel cell stack and electrolyzer testing, stack control system development, cell voltage monitoring, power conversion, and more.

[www.kolibrík.net](http://www.kolibrík.net)