

## CASE STUDY

# Hysata Utilizes Kolibrík Potentiostats with EIS

Hysata is an innovative Australian manufacturer of the world's most efficient electrolyzer. Their capillary-fed technology redefines the economics of green hydrogen production by delivering the world's most efficient, simple and reliable electrolyzer.

As part of Hysata's testing of their breakthrough electrolyzer cells, Hysata needed to reliably measure a wide range of electrochemical parameters – from basic voltammetry to advanced electrochemical impedance spectroscopy (EIS). These methods are valuable inputs into optimizing electrode design, stability, and performance.

As part of Hysata's testing requirements, Hysata procured Kolibrík Potentiostats, which allowed them to measure EIS for detailed characterization of their electrolyzer cells' behavior under various operating conditions, optimize electrochemical parameters, and test reliably, giving their team the flexibility to develop and scale their technology quickly.



Kolibrík also provided Hysata with technical support by setting up testing procedures and respond quickly when questions arose.



### **Hysata manufactures the world's most efficient, simple, reliable electrolyzer.**

Hysata's electrolyzers achieve 95% system efficiency (41.5 kWh/kg H<sub>2</sub>) surpassing incumbent commercial electrolyzers by ~20% and allowing for a dramatically simplified balance of plant. Hysata's electrolyzer has also been designed for mass manufacturing from Day 0.

### **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)