

Break the **energy cost** barrier in hydrogen projects

Core challenges in hydrogen project economics



~60% OF HYDROGEN COSTS

Energy consumption is the largest cost driver for green hydrogen production



HIGHER CAPEX

Inefficient electrolyzers require larger MW capacity to meet output targets



LOW COMPETITIVENESS

Elevated energy demand keeps green hydrogen costs high and limits market adoption

BUSINESS IMPACT: Projects face reduced profitability and slower adoption due to high energy costs, larger systems, and limited competitiveness.

Ohmium advantage



48 KWH/KG SYSTEM EFFICIENCY*

Industry-leading efficiency reduces total energy consumption



REDUCED CAPEX

Efficient electrolyzers decrease MW capacity needed to achieve production goals



HIGHER PROJECT COMPETITIVENESS

Improved economics make green hydrogen commercially viable

* System efficiency calculations include stack, power electronics, H2 purification, cooling, water treatment, and DAS/control system losses.

Value Delivered



LOWER LCOH – Enhanced efficiency directly cuts operating expenses



CAPEX SAVINGS – Each 1 kWh/kg efficiency gain saves up to €40/kW in CapEx



GREATER PROFITABILITY – Improved margins strengthen project bankability and ROI

RESULT: Deliver cost-efficient hydrogen with high system efficiency that decreases energy consumption, CapEx, and total cost of ownership.