



OTSO – Open-source Technology for Sustainable Opportunities

“OTSO is an independent, daily published, international research initiative dedicated to advancing global understanding of hydrogen energy systems and their role in achieving a sustainable future. Its work brings together technical research, policy analysis, safety standards, and education in one accessible open-source platform: <https://otso.com.au/>”

At its core, OTSO addresses the urgent need for reliable, science-driven information about hydrogen technologies. The transition away from fossil fuels requires not only innovation in energy systems but also a rigorous examination of standards, regulation, and education. By publishing openly and consistently, OTSO reduces barriers to knowledge and ensures that decision-makers, engineers, researchers, and students can access the latest findings without restriction.

*The site is structured into key focus areas: **Hydrogen Production and Systems, Testing and Evaluation, Policy, Safety and Standards, Education, and Quality References**. Each section is regularly updated to reflect developments in international research, government strategies, and industrial best practices. This comprehensive approach provides a bridge between laboratory research, real world engineering, and public policy.*

Why does OTSO exist? *The reason is simple: the global energy system is undergoing rapid change, and humanity needs trustworthy, independent research to navigate the risks and opportunities. Unlike proprietary research locked behind paywalls, OTSO operates as a living knowledge base—transparent, freely available, and continuously refreshed. It empowers individuals and organisations to make informed decisions about hydrogen adoption, infrastructure design, and long-term sustainability.*

*In short, OTSO exists to **accelerate the safe and effective integration of hydrogen into the world’s energy mix**. It does so not by competing with governments, industry, or universities, but by complementing them — providing open, verifiable, and daily-updated knowledge that strengthens the global community’s capacity to respond to climate change and energy security challenges.” **Vulcan logic from Star Trek** – [Robert Cole Basford](#)*