



Isaac Herraiz

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Dr. Isaac Herraiz Cardona is a Chemical Engineer and sustainability expert with more than 15 years of experience in hydrogen technologies, electrochemical systems, advanced materials, and circular economy strategies. He holds a **PhD in Industrial Production** from the **Polytechnic University of Valencia (UPV)**, where his research focused on the development of advanced electrode materials for hydrogen production via alkaline water electrolysis.

Following his doctoral studies, he worked as a **Research Associate at Universitat Jaume I (UJI)**, contributing to the development of photoelectrochemical and photovoltaic systems for decentralised solar-driven hydrogen production and solar fuels. He later joined **KERIONICS** as **R&D Manager**, where he led activities related to the industrial scale-up and manufacturing of solid oxide electrochemical technologies, gaining extensive experience in technology transfer and industrial implementation.

Currently, Dr. Herraiz Cardona serves as **Technical Coordinator at LOMARTOV**, where he supports the sustainability guidance and validation of emerging technologies within European R&D projects, with a particular focus on renewable energy generation, conversion, and storage systems. His work integrates sustainability assessment methodologies — including **Life Cycle Assessment (LCA)**, **Life Cycle Costing (LCC)**, and **Techno-Economic Assessment (TEA)** — with innovation management and industrial deployment strategies, contributing to the environmental, economic, and circularity validation of advanced technologies.

In parallel, he is an **Associate Lecturer at the Polytechnic University of Valencia**, where he teaches courses in electrochemistry, energetic waste valorisation, and sustainability-related topics. He also contributes to several university chairs and postgraduate programmes focused on sustainability and regulatory aspects of renewable technologies and industrial decarbonisation pathways.