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*Sala de Grados, Faculty of Sciences
Campus San Francisco*

• INMA

Impulso



Electrolysis for green hydrogen production

– from lab-scale R&D to industrial scale technology at Topsoe

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Topsoe, Denmark

About the speaker: Materials scientist with 20+ years' experience in inorganic chemistry and materials science, specializing in high-temperature electrochemistry for SOEC/SOFC. Holds a PhD from Risø National Laboratory/DTU Chemistry and have extensive experience communicating research results and challenges. Her work focuses on electrochemical testing/characterization and post-test analysis of cells (electron microscopy and microanalysis). Currently she is Senior Group Manager of the SOEC Cell Performance group in Topsoe's Power-to-X division. The group develops, manufactures, tests, and characterizes SOEC single cells to ensure high performance and durability for integration into SOEC stacks used in Power-to-X.

Abstract: To enable Topsoe's Vision 2029—"to deliver decarbonization solutions at scale to lead the fuel transition"—one of the key technologies to develop, scale up, and industrialize is solid oxide electrolysis cell (SOEC) technology, paving the way for cost-effective green hydrogen production via steam electrolysis. This presentation provides an overview of Topsoe's SOEC technology, from nanoscale R&D to results from demonstration units. It includes results from cell performance development as well as lifetime and robustness testing of SOEC stacks, and concludes with an update on Topsoe's SOEC cell and stack manufacturing facility.