

Solid Oxide Cell (SOFC/SOEC) Process.

**Laboratory of Process Systems Design & Implementation (PSDI),
CPERI/CERTH.**

We have started working with Thermansys about 4 years ago when they designed and constructed for us a new tube furnace, customized for our Probostat® Solid Oxide (SOFC/SOEC) button cell test fixture. From day one, Thermansys people have been very inventive, responsive, helpful, and professional. The furnace has all the features to facilitate ease of reactor assembly and placement, and fast response for performing the complete range of measurements (electrical/electrochemical properties, kinetics of materials, solid/gas interfaces and electrodes) under controlled atmospheres at temperatures up to 1200°C. Thermansys products, including their refractory ceramics, have been a great value for our laboratory: they have proven reliable and meet completely our needs for long term continuous, unimpeded duty, supporting our solid oxide Fuel Cell and Electrolysis research within [EU](#) and [ESA](#) projects.

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Thermansys tube furnace in the SOC Test Bench at CERTH



