



*Implementation in real SOFC Systems
of monitoring and diagnostic tools
using signal analysis to increase their
lifetime.*

Objectives

Stacks lifetime

+5%

Availability

+1%

Total Cost
Ownership

-10%/kWh



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The INSIGHT project develops a Monitoring, Diagnostic and Lifetime Tool to prolong Solid Oxide Fuel Cell (SOFC) stacks lifetime.

The INSIGHT cost-efficient and robust solution will exploit two advanced complementary techniques:

- Total Harmonic Distortion
 - Electrochemical Impedance Spectroscopy
- in addition to conventional stack dynamic signals analysis.

The effectiveness is demonstrated by prediction methodologies and on-field tests on a real micro-Combined Heat and Power (μ -CHP) system for residential applications (ie small power, typically 2,5kW electric).



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