



*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 ( $\mu$ -CHP) system for residential applications (ie small power, typically 2,5kW electric).



Contact us if you want to be the first to be informed about latest results of the project.

Follow INSIGHT on the website :  
[www.insight-project.eu](http://www.insight-project.eu)

