



Hydrogen Europe: European Hydrogen & Fuel cell Project Database

Project SOSLeM

Solid Oxide Stack Lean Manufacturing

The proposed SOSLeM project will contribute to the call objectives by improving production processes as well as developing and applying novel manufacturing technologies for FC stacks. The improvements proposed by the project will sum up to a reduction of manufacturing costs of about 70%, leading to decreased capital cost of about 2.500 €/kW. Besides these outstanding economical and technical improvements, production material will be spared and environmental benefits will be realized. Specifically, the project will: - Develop new and optimized processes for cassettes production, by avoidance brushing of cassettes, improved sealing adhesion on cassettes, automation of welding, lean manufacturing processes and anode contact layer laser welding,- Improve stack preparation, by advanced glass curing and stack conditioning and improved gas stations, - Enable environmental benefits by Cu-based instead of Co-based powder and evaluation of On-site Nickel removal from waste water- Reduce production time and costs and improve flexibility, by large furnace arrangement, introduction of a multi-stack production station, examination of substituting Co-based powder by Cu-based power, Examination of partially substituting Co-based powder by enamel coating and simultaneous sintering.

Project Information

Type of project : Research

Timing : 01/04/2016 > 31/03/2019

Project website: <http://www.soslem.eu>

Project Budget : 2.084.301 €

Funding

European Union through FCH JU: Grant agreement 700667 - [CORDIS link](#)

Project partners

Coordinator :

Athena S.p.a

Partners :

[AVL List GmbH](#)

[EPFL - Ecole Polytechnique Fédérale de Lausanne](#)

[GREENLIGHT INNOVATION GMBH](#)

[SOLIDPOWER SA](#)

Sub project(s)

Sub project 1

Country: Italy

Address:

VIALE TRENTO 115/117 38017 MEZZOLOMBARDO TN

Sub project categories

Research

Project Id: 1094

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