

Automated Mass Production of SOC Stacks

Today, the production of clean energy using sources available within the European Union is more crucial than ever.

Equally important is to strengthen EU's ability to produce hydrogen without using fossil natural gas.

The transition from fossil, imported energy sources to clean, domestic energy sources and hydrogen production must be made in a way that is acceptable and affordable for EU citizens.

Identifying Solid Oxide Cell (SOC) technology as a solution to these challenges, the AMPS project focuses on cost as the main obstacle to the large-scale deployment of these technologies.

Solid Oxide Cell (SOC) technology allows:

1. the utilisation of underutilised domestic energy sources, such as biogas, with Solid Oxide Fuel Cells (SOFC)
2. the production of highly efficient hydrogen with Solid Oxide Electrolyzers (SOE)
3. to provide tools to control electricity demand/production, and thus the cost of electricity, by modulating hydrogen production according to the availability of wind and solar energy.

AMPS aims to develop, demonstrate and validate mass production and quality control methods to produce low-cost, high-volume SOC components and stacks.



This project has received funding from the European Union Horizon Europe

PROJECT DURATION

From 01/06/2023 to 31/05/2027

48 months

WEBSITE AND SOCIAL MEDIA

www.amps-project.eu

PARTNERS

- TEKNOLOGIAN TUTKIMUSKESKUS VTT OY (Coordinator)
- AKTSIASELTS ELCOGEN
- SITEC Industrietechnologie GmbH
- SITEC Automation GmbH
- ELCOGEN OY
- POLITECNICO DI TORINO
- Smartal Engineering OÜ
- Dosetec Exact Oy
- Rocksoft OÜ
- Fincoat Oy
- HAIKU TECH EUROPE BV
- VUTS AS

FUNDING INSTRUMENT

HORIZON-JTI-CLEANH2-2022-2

BUDGET

Finanziamento totale: **8 711 520.00 €**

Finanziamento **POLITO: 523.750,00 €** di cui al **DIATI 39.062,50 €**

PoliTo and DIATI' role:

Polito is partner of the Consortium
Scientific supervisor for DIATI:
Prof. Giovanni Andrea Blengini.