

AutoRE

Project reference: 671396

Funded under: H2020-EU.3.3.8.1.

AUTomotive deRivative Energy system

From 2015-08-01 **to** 2018-08-01, ongoing project

Project details

Total cost: EUR 4 464 447,25	Topic(s): FCH-02.5-2014 - Innovative fuel cell systems at intermediate power range for distributed combined heat and power generation
EU contribution: EUR 3 496 947	Call for proposal: H2020-JTI-FCH-2014-1
Coordinated in: United Kingdom	Funding scheme: FCH2-RIA

Objective

"The overall aim is to create the foundations for commercializing an automotive derivative fuel cell system in the 50 to 100 kW range, for combined heat and power (CHP) applications in commercial and industrial buildings. More specifically, the project has the following objectives:

- develop system components allowing reduced costs, increased durability and efficiency
- build and validate a first 50 kW PEM prototype CHP system
- create the required value chain from automotive manufacturers to stationary energy end-users

Mass-market production of fuel cells will be a strong factor in reducing first costs. In this respect, joining the forces of two non-competing sectors (automotive and stationary) will bring benefits to both, to increase production volume and ultimately reduce costs to make fuel cells competitive. As a consequence, the project partners have identified a PEM fuel cell based CHP concept to address the stationary power market, primarily for commercial and industrial buildings requiring an installed capacity from about 50 kWe to some hundreds of kWe. The main components of the system have been validated to at least laboratory scale (TRL>4). As a part of the present AutoRE proposal, the overall system will be demonstrated and further validated to increase the technology readiness level to TRL5. In addition, innovative solutions will be demonstrated to continuously improve performance and reduce costs and complexity. The project consortium reflects the full value chain of the fuel cell CHP system which will enhance significantly the route to market for the system/technology.

The proposal relates to FCH-02.5-2014: Innovative fuel cell systems at intermediate power range for distributed combined heat and power generation, and it addresses the main specific challenges and scope laid down in the FCH JU AWP2014 to "develop, manufacturing and validation of a new generation of fuel cell systems with properties that significantly improve competitiveness".

Coordinator

ALSTOM POWER LTD
United Kingdom

United Kingdom

EU contribution: EUR 1 250 000

Participants

ALSTOM (SCHWEIZ) AG
Switzerland

Switzerland

EU contribution: Not available

DAIMLER AG
Germany

Germany

EU contribution: EUR 883 122

ELVIO ANONYMI ETAIREIA SYSTIMATON PARAGOGIS YDROGONOU KAI ENERGEIAS
Greece

Greece

EU contribution: EUR 859 437,5

University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval
Architecture
Croatia

Croatia

EU contribution: EUR 83 750

UNIVERSITA DEGLI STUDI DELLA TUSCIA
Italy

Italy

EU contribution: EUR 121 250

STIFTELSEN SINTEF
Norway

Norway

EU contribution: EUR 299 387,5

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