PROJECT

Fit-4-AMandA

Future European Fuel Cell Technology: Fit for Automatic Manufacturing and Assembly

Funding: European (Horizon 2020)

Duration: Mar 2017 - Nov 2020

Status: Complete

Total project cost: €2,999,185

EU contribution: €2,999,185

Call for proposal: H2020-JTI-FCH-2016-1

CORDIS RCN : 208316

Objectives:

The main target of our work is to industrialise the stack production, to deliver affordable fuel cell systems in larger quantities to meet the emerging market demand. At the heart of our call is to build a worldwide new and unique machine which enables serially* produce the centrepiece of fuel cell system: the stack. This will revolutionize how stacks are produced in future.

The result of our project work can be used for several purposes: Branding, Prototyping and Business development. The stacks can be used outside of automotive industry, because they can be adapted to other applications (such as uninterruptible power sources) by the design of a fuel cell system.

Methodology:

The members of the consortium are: a developer and producer of fuel cell systems (Proton Motor Fuel Cell GmbH), a supplier of MEAs and BiPolar Plates (BPP) (EWII), a supplier of industrial machinery for assembly, handling and testing equipment (USK Karl UTZ Sondermaschinen GmbH), two renowned research institutions (Technische Universitat Chemnitz / ALF, Fraunhofer IWU) and a EU project management expert (Uniresearch B.V.) and last but not least, UPS an international transport OEM with its own vehicle production of Light Commercial Vehicles.

Parent Programmes:

H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Uniresearch

Address:
DELFTECHPARK 37 J
2628 XJ DELFT
Netherlands

Organisation Website:
http://www.uniresearch.nl

EU Contribution: €172,500

Partner Organisations:

Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.

Address:
HANSASTRASSE 27C
80686 MUNCHEN
Germany

Organisation Website:
http://www.fraunhofer.de

EU Contribution: €257,975

Ups Europe Sa

Address:
AVENUE ARIANE 5
1200 BRUXELLES
Belgium

EU Contribution: €106,851

Proton Motor Fuel Cell Gmbh

Address:
Benzstrasse 7
82178 Puccheim
Germany

EU Contribution: €361,880

Technische Universitaet Chemnitz

Address:
STRASSE DER NATIONEN 62
09111 CHEMNITZ
Germany

Organisation Website:
http://www.tu-chemnitz.de

EU Contribution: €300,625

Usk Karl Utz Sondermaschinen Gmbh

Address:
AN DER HOPFENDARRE 11
09212 LIMBACH OBERFROHNA
Germany

EU Contribution: €1,199,688

Ewii Fuel Cells A/s

Address:
EMIL NECKELMANNS VEJ 15A
5220 FRAUGDE
Denmark

Organisation Website:
http://www.ird.dk

EU Contribution: €599,666

Technologies:

Unclassified
Non-technology

Development phase: Research/Invention

STRIA Roadmaps: Transport electrification, Low-emission alternative energy for transport

Transport mode: Road transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Environmental/Emissions aspects, Deployment planning/Financing/Market roll-out

Geo-spatial type: Other