

PACE project workshop

Fuel Cell micro-Cogeneration in the Future Energy System – State of Play and Outlook

Date & Time: Tuesday, 09th October 2018, 10.00 – 12.00

Venue: European Commission, CDMA Building Mondrian (Rue du Champ de Mars 21, 1050 Brussels, Belgium)

Participation: Participation to this workshop is by invitation only. To register, please email benedetta.dicostanzo@cogeneurope.eu

Description:

Europe's energy sector is preparing to undergo significant transformation in response to climate change, energy security, air pollution and increasing energy costs. With buildings being responsible for 30% of emissions in the EU, the decarbonisation of this sector, has been identified as a priority at both the EU and national levels. Improving air quality is another key challenge, as 3 out of 4 Europeans, mostly in cities, are subject to dangerously high levels of air pollution.



Fuel cell micro-cogeneration is the latest smart heat and power solution for private homes and SMEs. Fuel cell micro-cogeneration is available on the EU markets today and more than 3,500 households across Europe are already reaping its benefits. Fuel cell micro-cogeneration has the potential to deliver significant energy savings, CO₂ emission reductions and energy bill savings both today and in the future. It is flexible and helps tackle air pollution, as it efficiently generates electricity and heat without combustion.

The EU co-funded project ene.field has demonstrated the potential of fuel cell micro-cogeneration to contribute to the EU and national energy and climate objectives. The follow-up PACE project is now enabling the sector to bring these products closer to mass-market commercialisation, as part of a

manufacturing transition to higher volumes in the order of 10,000 units/year post 2022.

As the EU is debating its future energy system and a long-term climate strategy, the PACE project workshop will provide insights into the key benefits of fuel cell micro-cogeneration, synergies with ongoing hydrogen developments and implications for air quality in cities. High-level industry representatives and academics will present the vision of the sector for the future energy system, outlining the key policy recommendations and further innovation and commercialisation potential.

Agenda and Speakers

- 09.30 – 10.00 Registration and welcome coffee
- 10.00 – 10.10 Welcome and introduction – **Hans Korteweg** (COGEN Europe) & **Antonio Aguilo-Rullan** (FCH JU)
- 10.10 – 11.40 State of play & Outlook – Presentations

Setting the scene: The role of Fuel Cell micro-Cogeneration in the Future Energy System

Jeremy Harrison (Delta-ee)

Fuel Cell micro-Cogeneration and Hydrogen: State of the Art in Europe and Beyond

Olivier Bucheli (SOLIDpower/ CT4 of FCH JU)

Capabilities, Potentials and Barriers: Lessons Learnt from the ene.field project

Lisa Ruf, Principal Consultant / Project Manager (Element Energy)

PACE: Pathway to a Competitive European Fuel Cell micro-Cogeneration Market

Volker Nerlich (Viessmann Group) and **Mike Small** (BDR Thermea)

- 11.40 – 12.00 Roundtable discussion
- 12.00 – 13.30 Networking lunch

About ene.field and PACE

ene.field and now PACE are the largest European demonstration projects of the latest smart energy solution for private homes, micro-CHP. ene.field and PACE will see over 3,500 households across Europe able to experience the benefits of this new energy solution. The projects use modern fuel cell technology to produce heat and electricity in households and empower them in their electricity and heat choices and bring together partners including European manufacturers, utilities, and research institutes making the products available across 11 European countries.

The ene.field project has received funding from the European Union's Seventh Framework Programme (FP7/2007-2013) for the Fuel Cells and Hydrogen Joint Technology (FCH-JU) under grant agreement n° 303462. The PACE project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking under grant agreement No 700339. This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation programme and Hydrogen Europe and N.ERGHY.

The ene.field and PACE partners are¹:



¹ The ene.field partners are: Ballard, Baxi Innotech, Bosch, British Gas, Ceres Power, COGEN Europe, DBI, DCHT, Dolomiti Energia, DONG Energy Power, DTU, EIFER, Elcore, Element Energy, Engie, Environment Park, Energy Saving Trust, GWI, Hexis, HyER, Imperial College London, Politecnico di Torino, RBZ, SenerTec, SOLIDpower, Vaillant, Viessmann.
 The PACE partners are: BDR Thermea, Bosch, COGEN Europe, DTU, Element Energy, EWE, SOLIDpower, Sunfire, Viessmann.