Italian National Agency for New Technologies, Energy and Sustainable Economic Development

International Energy Agency

IEA Technology Collaboration Programme
Advanced Fuel Cells

Annex 33 - Fuel Cell for Stationary Applications
Workshop on

CHP in the built environment: Natural Gas and/or Hydrogen?

14th May 2021
Webinar, 13:00 – 15:00 CET

Much attention and commitment is being raised towards the utilisation of hydrogen to displace fossil fuels in the energy sector, favouring massive penetration of fluctuating renewables. The cost of this paradigm shift is of geopolitical concern, and many initiatives are being set up to address the implications of substituting expensive innovative technologies for established infrastructures, innovative business models for established revenue streams. Being able to leverage the legacy infrastructures for fossil fuel distribution, such as the natural gas grid, can be a way of channelling a smooth and manageable transition to all-renewable power.
This workshop looks into the end-use aspects of this development, related to heat and power supply in the built environment (residential and commercial users and prosumers). What are the technical implications and feasible business strategies for heat and power suppliers to deal with growing percentages of hydrogen in natural gas, if the transmission or even distribution grids will be used to store renewable power? Is pure hydrogen the way to go directly?

13:00	**Welcome and introduction**	**Viviana Cigolotti, Annex 33 Operating Agent, ENEA, Italy**
13:10	Opening by the Moderator	Stephen McPhail, ENEA, Italy
13:15	Logistic fuels vs. renewable hydrogen: best solution for fuel cells?	Andreas Frommel, Sunfire, Germany
13:30	PowerCellution, growing market demand calls for complex deliveries	Åse Bye, Powercell, Sweden
13:45	Elcogen solid oxide technology in energy conversion	Matti Noponen, Elcogen Oy, Finland
14:00	PEM FC for stationary applications ; from Data center Backup power to Microgid prime power	Roy Segev, Ballard, Canada
14:15	SOLIDpower: clean solutions for stationary applications	Stefano Modena Solid Power, Italy
14:30	**Round table**	