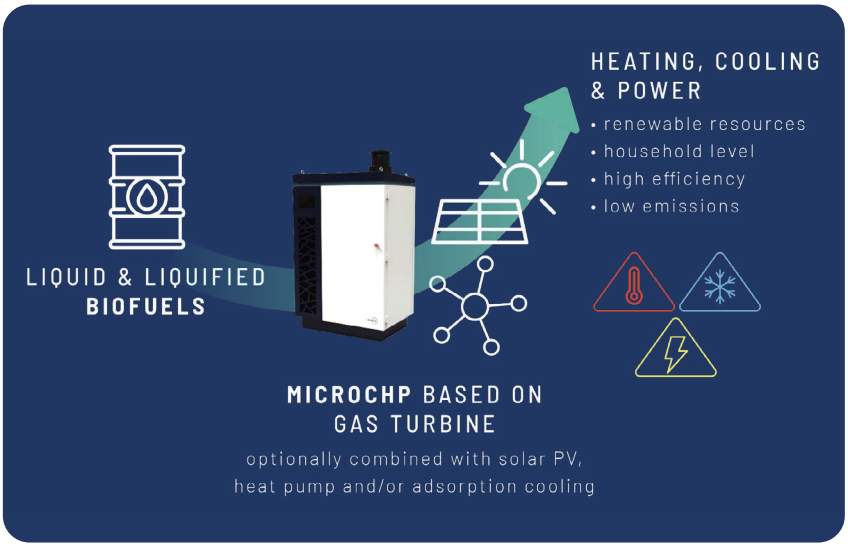
INVITATION
WORKSHOP ON TECHNOLOGIES FOR BIOFUEL HYBRID MICRO GAS TURBINES

Organized by Fit4Micro Consortium



Hybrid event

25 September 2024, 14:00 – 17:30

INNSiDE Hotel

Sandkaulstraße 20, 52062 Aachen, Germany

Join online

Join onsite

This event will introduce and explain the main current activities performed by several partners of Fit4Micro project, which is funded by the EU's Horizon Europe research & innovation framework programme.

Fit4Micro aims to make a positive and unique contribution to the challenge of making buildings more environmentally sustainable.
The project's main objective is to develop a new generation of combined cooling, heat and power (CCHP) system based on a novel technology of microturbine, running on sustainable biofuels. The system would be suitable for multi-family residential buildings and at remote or off-grid locations, for multi-office or multi-apartment buildings, hotels, hospitals and so on.
The technology developed for the project is based on a hybrid heating system, which has several advantages compared to pure electrically-driven ones, and hence is particularly attractive in the retrofit market for existing buildings.
The system will generate electricity in an efficient way, and the heat can also be used in order to produce cooling by means of adsorption chillers.

In the first part of the event, Prof. Alessandro Parente will present particular aspects of industry decarbonisation related to combustion technologies.

At the end of each presentation, time will be properly allocated for Q&A from the audience and presenters.
The format of this event will be hybrid:

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AGENDA

Chaired by Simon Minett, Technical Advisor of COGEN Europe

14:00
Welcome to attendees and presentation of the event
Siri Harboe-Minwegen, OWI, Germany

14:05
Presentation of Fit4Micro Project
Michel Delanaye, MITIS, Belgium

14:30
Hydrogen and ammonia for industry decarbonisation: the role of diluted combustion technologies
Alessandro Parente, Université libre de Bruxelles, Belgium

15:30
Biofuels from residues via fast pyrolysis and hydrotreatment
Evert Leijenhorst, BTG, The Netherlands

15:55
Biofuels for combustion applications: Research efforts at OWI
Dirk Möntmann, OWI, Germany

16:20
Gas foil bearings for small scale turbomachinery
Danish Rehman, MITIS, Belgium

16:45
Heat pumps and chillers with natural refrigerants
Gerrit Füldner, Fraunhofer ISE, Division Thermal Systems and Buildings, Germany

17:15
Closure of the event

Funded by the European Union

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