

R&D Partner Search

1. Collaboration Details

Project idea or Expertise offer

Project idea Expertise offer

European funding source

- Eureka
- FP7 Cooperation
 - Health
 - Information and communication technologies
 - Energy
- FP7 – Ideas
 - ERC Starting Independent Research Grant
 - ERC Advanced Investigator Research Grant
- FP7 – People
- FP7 – Capacities
 - Research Infrastructures
 - Research for the Benefit of SME
 - Regions of Knowledge
 - Research Potential of Convergence Regions
 - Science and Society
 - Support to Coherent Development of Research Policies
 - International Cooperation
- CIP – Entrepreneurship and Innovation Programme
- CIP – ICT Policy Support Programme
- CIP – Intelligent Energy Europe Programme
- Other European funding

2. Project Idea / Expertise Offer

Titel

Project Idea: Energy Supply of a passive - house - standard Building by an Air cooled Fuel Cell

Expertise: Fuel conversion an fuel cells (< 5 kW) in automotive, portable and stationary applications

Keywords

Project Idea: Air cooled fuel cell, passive house, heat pump

Expertise: Reforming technologies,
automotive, portable and stationary fuel cell applications,
hybridisation applications with fuel cells
fuel cell measurement and control engineering

Description of project idea or expertise

Project Idea:

The aim of the project is the combination of a fuel cell with a reversible working heat pump for the energy supply of buildings having a very low heat demand (consumption $< 15 - 20 \text{ kWh/m}^2 \text{ a}$)

Expertise

- Fuel cell test stands, measurement and control engineering
- Reforming technology (CH_4 , CH_3OH , CH_5OH), chemical reactions, catalysts, gas purification
- Fuel cell hybridisation (Pb-/Li-Ion - batteries, capacitors), combined charge cycles
- Fuel cell systems ($< 5 \text{ kW}$): automotive systems (scooter, test vehicle), portable systems (portable power packs), stationary systems (fuel cell split unit for heating, cooling and power generation for camping, yachting, meat and vegetables delivery, etc.)
- Stationary fuel cells in cogeneration, virtual power plants
- Fuel cells in apprenticeship

3. Partner search

Targeted partner organization type(s)

- | | |
|--|--|
| <input checked="" type="checkbox"/> SME (< 250 employees) | <input checked="" type="checkbox"/> Large Company |
| <input checked="" type="checkbox"/> University | <input checked="" type="checkbox"/> Research / Technology Centre |
| <input type="checkbox"/> Other: | |

Targeted partners skills and competencies that you seek

Project Idea: Experience in simulation of daily energy consumption of buildings, connection to passive – house –standard building for pilot project, man power for funding application

Expertise: Partners with competence in completion energy chains like fuel generation from biomass and/or pilot projects where fuel cells in automotive, portable or stationary applications are used (see expertise above), man power for funding application.